How to use this file...(Parts Manuals)

Instructions for
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* Cover—on pre-printed grid stock whenever available.

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* Body—1-color, 2-sided
* Cover—1-color, 1-sided

Bindery:
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* If MORE than 30 sheets—Perfect bind with black tape
* Face Trim
* 3-Hole Drill

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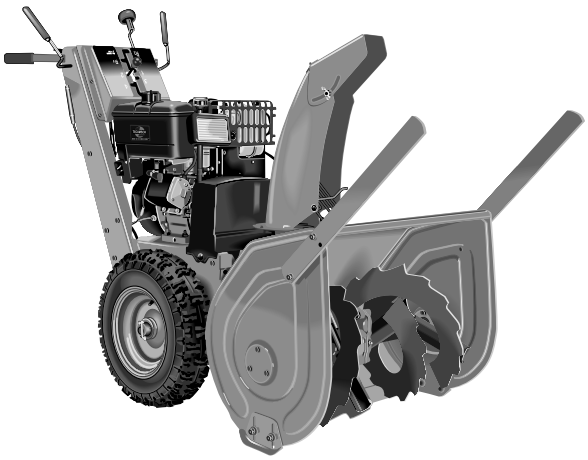
Simplicity

Parts Manual

LARGE FRAME
SNOWTHROWERS
(MODELS 860, 970 & 1180)



MODEL 860 SNOWTHROWERS

Mfg. No.	Description
1693650	860M, 8HP Snowthrower
1693651	860M, 8HP Snowthrower (Export)
1693763	860M, 8HP Snowthrower
1693775	860M, 8HP Snowthrower (Export)
1693984	860M, 8HP Snowthrower
1693985	860M, 8HP Snowthrower (Export)
1694242	860E, 8HP Snowthrower

MODEL 860DLX SNOWTHROWERS

Mfg. No.	Description
1693652	860DLX, 8HP Snowthrower
1693653	860DLX, 8HP Snowthrower (Export)
1694241	860DLXE, 8HP Snowthrower

MODEL 970 SNOWTHROWERS

Mfg. No.	Description
1693654	970M, 9HP Snowthrower
1693655	970M, 9HP Snowthrower (Export)
1694243	970E, 9HP Snowthrower

MODEL 1180 SNOWTHROWERS

Mfg. No.	Description
1693656	1180M, 11HP Snowthrower
1693657	1180M, 11HP Snowthrower (Export)
1694244	1180E, 11HP Snowthrower

Rev. 09/2002
TP 400-2307-03-LW-S

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Torque Specification Chart .....Inside Back Cover

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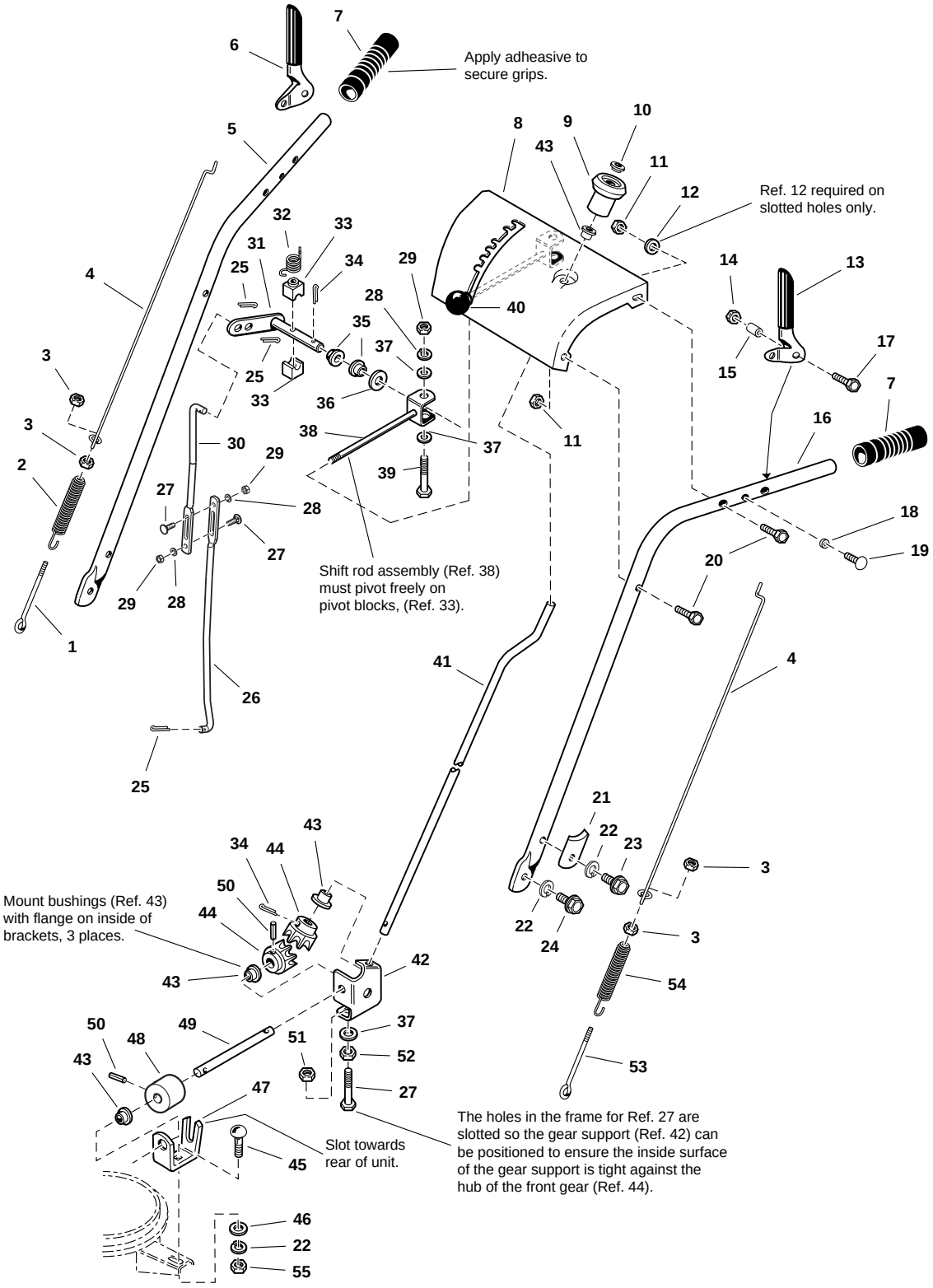
NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Apply adheasive to secure grips.
Ref. 12 required on slotted holes only.
Shift rod assembly (Ref. 38) must pivot freely on pivot blocks, (Ref. 33).
Mount bushings (Ref. 43) with flange on inside of brackets, 3 places.
Slot towards rear of unit.
The holes in the frame for Ref. 27 are slotted so the gear support (Ref. 42) can be positioned to ensure the inside surface of the gear support is tight against the hub of the front gear (Ref. 44).

The above parts group applies to the following Mfg. Nos.:

1693650 860M, 8HP Manual Start
1693651 860M, 8HP Manual Start (Export)
1693763 860M, 8HP Manual Start
1693775 860M, 8HP Manual Start (Export)

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Handles and Controls Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1668525	1	CLUTCH ROD, Lower, RH
2	1669323	1	SPRING, Extension
3	1916621	4	NUT, Hex, #10-24 RH
4	1715659	2	CLUTCH ROD, Traction & Auger Drive
5	1721564	1	HANDLE, RH
6	1715103	1	LEVER, Auger Clutch, RH
7	1676954	2	GRIP, Black Vinyl, for 1" Tube
8	1722627	1	DASHBOARD & SUPPORT ASSEMBLY
9	1714084	1	KNOB, Chute Control Spinner
10	1960093	1	PUSH NUT, 3/8
11	1919438	4	NUT, Hex Lock, 5/16-18
12	1919326	1	WASHER, Flat 5/16
13	1715104	1	LEVER, Traction Drive Clutch, LH
14	1923358	2	NUT, Hex, Centerlock, 1/4-20
15	1715655	2	SPACER, Large
16	1721563	1	HANDLE, LH
17	1922837	2	CAPSCREW, Hex Head, 1/4-20 x 1-1/2
18	1715654	2	SPACER, Small
19	1960556	2	SCREW, Taptite, Pan Head, Torx, 1/4-20 x 3/4
20	1921221	4	CAPSCREW, Hex Head, 5/16-18 x 1-1/2
21	1720452	2	CLAMP, Tube, Saddle
22	1917356	5	LOCKWASHER
23	1922127	2	CAPSCREW, Hex Head, 5/16-18 x 1 3/4
24	1921332	2	CAPSCREW, Hex Head, 5/16-18 x 3/4
25	1918447	3	PIN, Cotter
26	1666255	1	ROD, Shift-Lower
27	1960252	3	CARRIAGE BOLT, 1/4-20 X 5/8
28	1916964	3	LOCKWASHER, 1/4
29	1916622	3	NUT, Hex Head, 1/4-20
30	1720238	1	ROD, Shift-Upper
31	1720240	1	ROD & ARM ASSEMBLY, Pivot
32	1715123	1	SPRING, Torsion
33	1668524	2	BLOCK, Pivot
34	1918452	2	PIN, Cotter
35	1668185	2	BUSHING
36	1924361	1	WASHER
37	1921319	2	WASHER, Flat 1/4
38	1668523	1	ROD & CLEVIS ASSEMBLY
39	1921159	1	CAPSCREW, Hex Head, 1/4-20 x 2-1/4
40	8021050	1	KNOB, Internal Thread, 3/8-16
41	1715658	1	ROD, Chute Control
42	1718793	1	SUPPORT, Gear
43	1667588	4	BUSHING, Nylon
44	1718593	2	GEAR, Steel, Universal
45	1931333	1	CARRIAGE BOLT, 5/16-18 x 3/4
46	1919326	1	WASHER, Flat 5/16
47	1611911	1	BRACKET, Worm Support
48	1668186	1	WORM, Chute
49	1668187	1	ROD, Chute, Worm

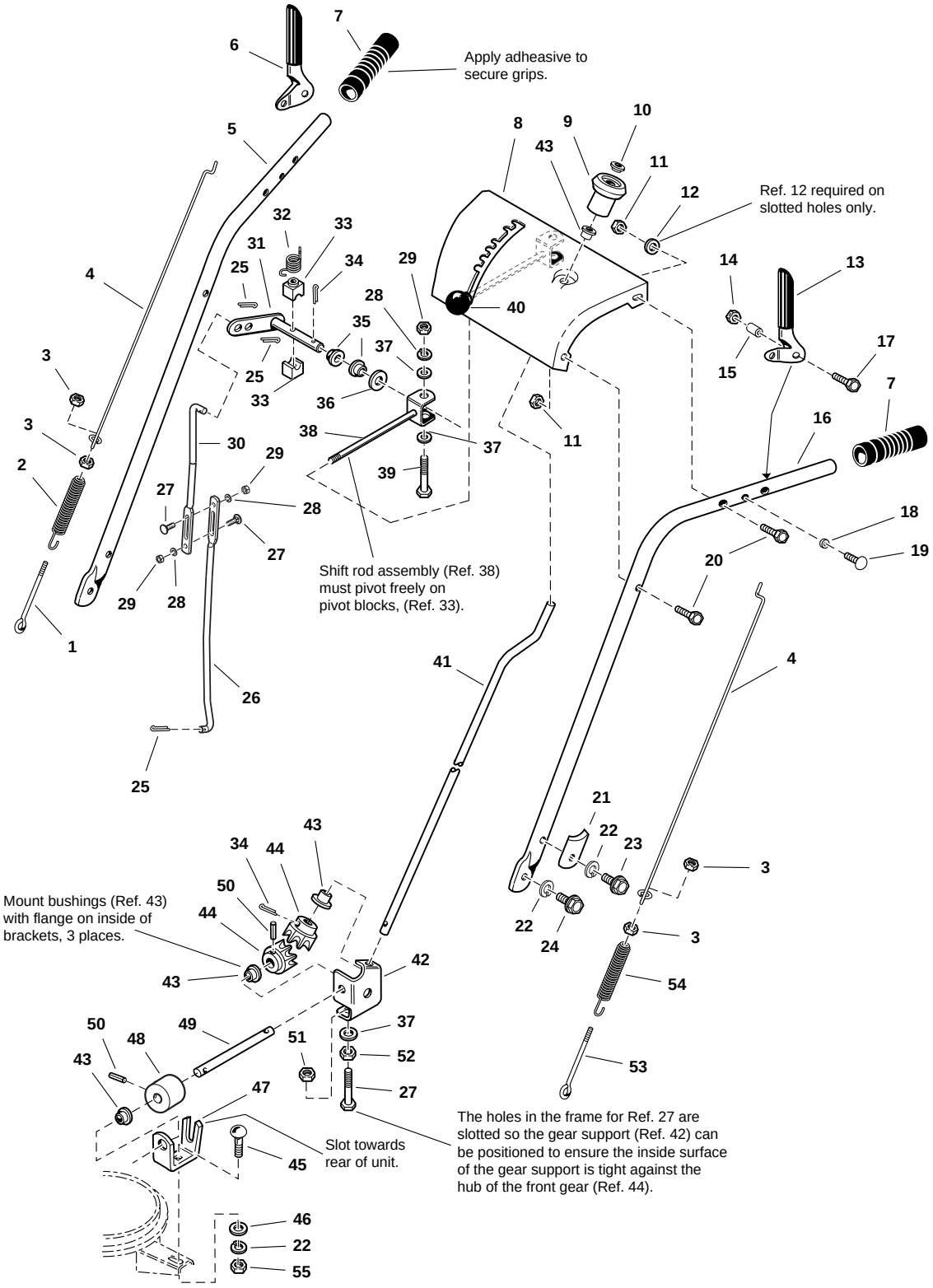
Footnotes:

The above parts group applies to the following Mfg. Nos.:

1693650 860M, 8HP Manual Start
1693651 860M, 8HP Manual Start (Export)
1693763 860M, 8HP Manual Start
1693775 860M, 8HP Manual Start (Export)

985771

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Apply adheasive to secure grips.
Ref. 12 required on slotted holes only.
Shift rod assembly (Ref. 38) must pivot freely on pivot blocks, (Ref. 33).
Mount bushings (Ref. 43) with flange on inside of brackets, 3 places.
Slot towards rear of unit.
The holes in the frame for Ref. 27 are slotted so the gear support (Ref. 42) can be positioned to ensure the inside surface of the gear support is tight against the hub of the front gear (Ref. 44).

The above parts group applies to the following Mfg. Nos.:

1693650 860M, 8HP Manual Start
1693651 860M, 8HP Manual Start (Export)
1693763 860M, 8HP Manual Start
1693775 860M, 8HP Manual Start (Export)

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Handles and Controls Group

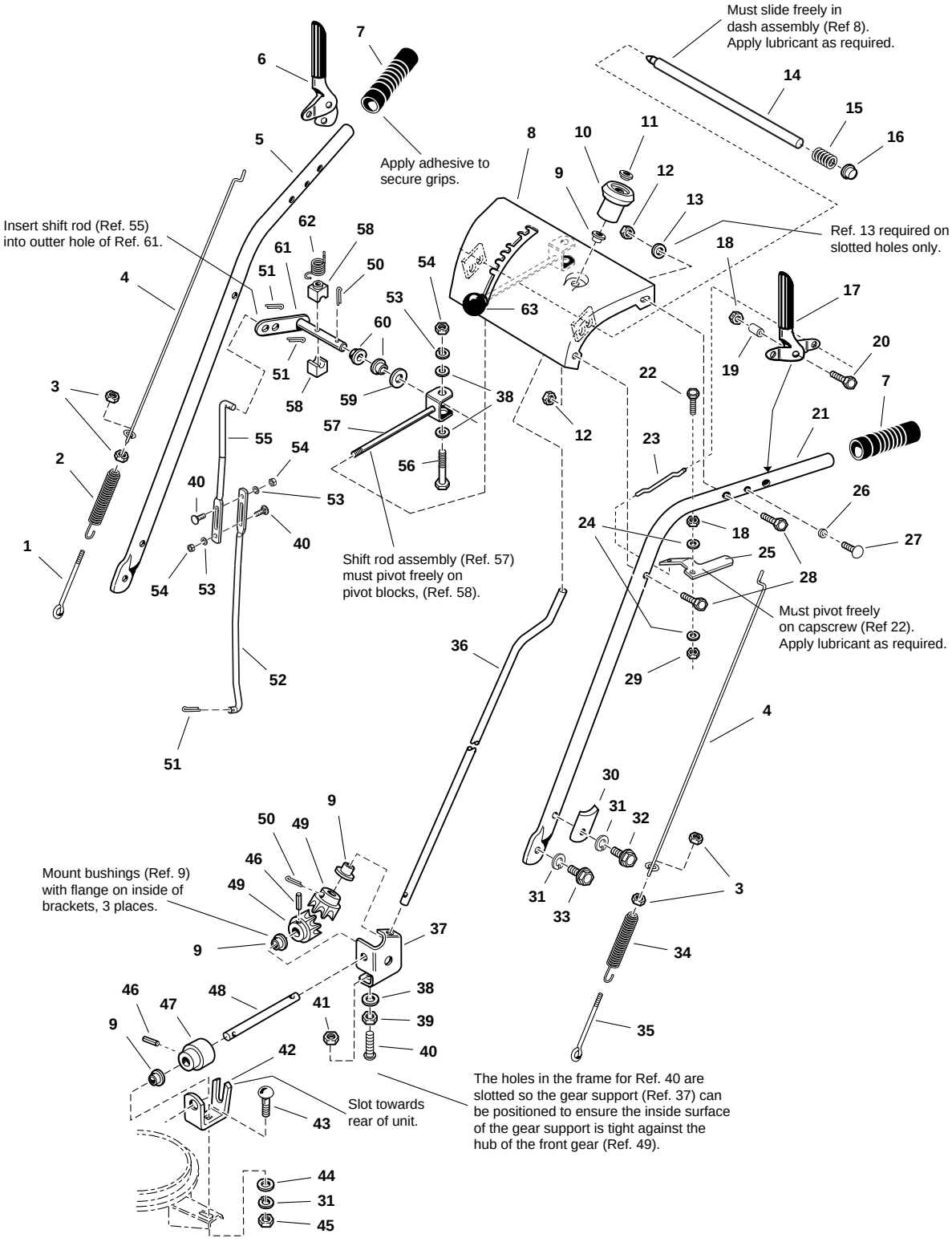
REF NO.	PART NO.	QTY.	DESCRIPTION
50	916168	2	PIN, Spring
51	1960294	2	NUT, Hex Flange, 1/4-20
52	1960518	2	PUSH NUT, Bolt Retainer 1/4
53	1668526	1	CLUTCH ROD, Lower, LH
54	1707452	1	SPRING, Clutch Rod
55	1917372	1	NUT, Hex, 5/16-18

Footnotes:

The above parts group applies to the following Mfg. Nos.:

1693650 860M, 8HP Manual Start
1693651 860M, 8HP Manual Start (Export)
1693763 860M, 8HP Manual Start
1693775 860M, 8HP Manual Start (Export)

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Must slide freely in dash assembly (Ref 8). Apply lubricant as required.
Apply adhesive to secure grips.
Insert shift rod (Ref. 55) into outter hole of Ref. 61.
Ref. 13 required on slotted holes only.
Shift rod assembly (Ref. 57) must pivot freely on pivot blocks, (Ref. 58).
Must pivot freely on capscrew (Ref 22). Apply lubricant as required.
Mount bushings (Ref. 9) with flange on inside of brackets, 3 places.
Slot towards rear of unit.
The holes in the frame for Ref. 40 are slotted so the gear support (Ref. 37) can be positioned to ensure the inside surface of the gear support is tight against the hub of the front gear (Ref. 49).

The above parts group applies to the following Mfg. Nos.:

1693984 860M, 8HP Manual Start
1693985 860M, 8HP Manual Start (Export)
1694242 860E, 8HP Electric Start

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Handles and Controls Group

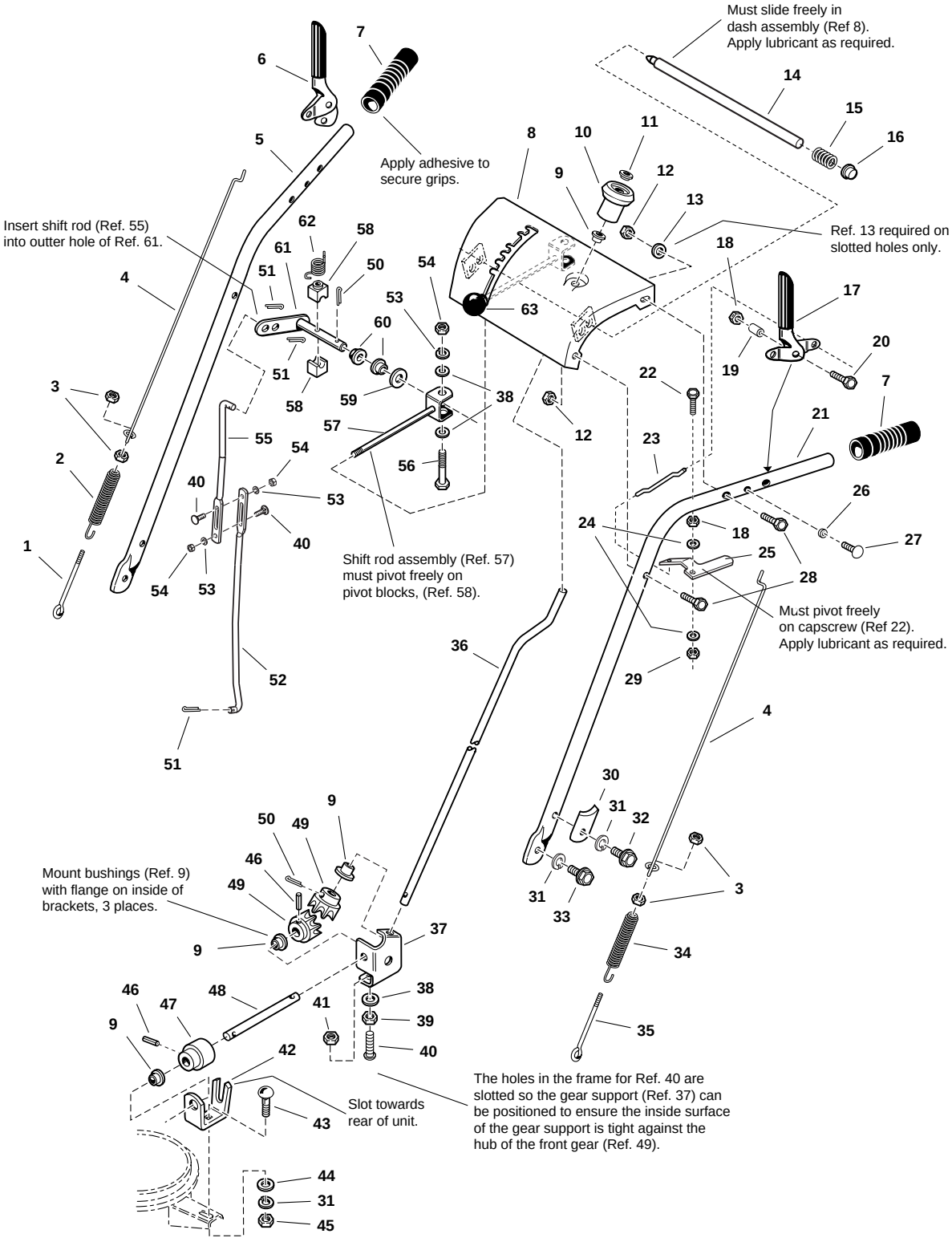
REF NO.	PART NO.	QTY.	DESCRIPTION
1	1668525	1	ROD, Auger, 3 7/16 Long 10-24
2	1669323	1	SPRING, Extension, 3 7/16 Long
3	1916621	1	NUT, Hex Machine Screw, 10-24
4	1715659	2	ROD, Clutch/Traction, 23 1/8 Long
5	1722636	1	HANDLE, RH
6	1722638	1	HANDLE, Clutch, RH
7	1676954	2	GRIP, Black Vinyl
8	1722627	1	DASHBOARD & SUPPORT ASSEMBLY
9	1667588	3	BUSHING, 3/8
10	1714084	1	KNOB, Spinner, 2 1/2 Long
11	1960093	1	PUSH NUT, Pal, 3/8
12	1919438	4	NUT, Hex Lock ESNA Light, 5/16-18
13	1919326	2	WASHER, 5/16
14	1722633	1	ROD & SPRING ASSEMBLY, with Pin
15	1722690	1	SPRING, Compression, 1 7/8 Long
16	1960519	1	PUSH NUT, Stud Cap, 1/2
17	1722667	1	HANDLE, Clutch, LH
18	1923358	2	NUT, Hex Centerlock, 1/4-20
19	1715655	2	SPACER
20	1922837	2	CAPSCREW, Hex Head, 1/4-20 x 1 1/2
21	1722637	1	HANDLE, LH
22	1921962	1	CAPSCREW, Hex Head, 1/4-20 x 1 3/4
23	1722630	1	ROD, 5 3/4 Long
24	1921319	2	WASHER, 1/4
25	1722631	1	LEVER, Pivot
26	1715654	2	SPACER
27	1960556	2	SCREW, Taptite, Pan Head, Torx, 1/4-20 x 3/4
28	1921221	4	CAPSCREW, Hex Head, 5/16 x 1 1/2
29	1920397	2	NUT, Hex Lock ESNA Light, 1/4-20
30	1720452	2	CLAMP, Tube Saddle
31	1917356	3	LOCKWASHER, Spring, 5/16
32	1922127	2	CAPSCREW, Hex Head, 5/16-18 x 1 3/4
33	1921332	2	CAPSCREW, Hex Head, 5/16-18 x 3/4
34	1707452	1	SPRING, Extension, Clutch Rod
35	1668526	1	ROD, Clutch, 6 5/16 Long
36	1715658	1	ROD, Chute Control, 27 Long
37	1718793	1	SUPPORT, Gear
38	1921319	2	WASHER, 1/4
39	1960518	2	PUSH NUT, 1/4
40	1960252	2	CARRIAGE BOLT, 1/4-20 x 5/8
41	1960294	2	NUT, Hex Whiz Lock Flange, Small, 1/4-20
42	1611911	1	SUPPORT, Worm
43	1931333	1	CARRIAGE BOLT, 5/16 x 3/4
44	1919326	1	WASHER, 5/16
45	1917372	1	NUT, Hex, 5/16-18
46	916168	2	PIN, Spring 1/8 x 3/4
47	1668186	1	WORM, Chute, LH
48	1668187	1	ROD, Chute, 17 3/4 Long
49	1718593	2	GEAR, Powder Metal

Footnotes:

The above parts group applies to the following Mfg. Nos.:

1693984 860M, 8HP Manual Start
1693985 860M, 8HP Manual Start (Export)
1694242 860E, 8HP Electric Start

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Must slide freely in dash assembly (Ref 8). Apply lubricant as required.
Apply adhesive to secure grips.
Insert shift rod (Ref. 55) into outter hole of Ref. 61.
Ref. 13 required on slotted holes only.
Shift rod assembly (Ref. 57) must pivot freely on pivot blocks, (Ref. 58).
Must pivot freely on capscrew (Ref 22). Apply lubricant as required.
Mount bushings (Ref. 9) with flange on inside of brackets, 3 places.
Slot towards rear of unit.
The holes in the frame for Ref. 40 are slotted so the gear support (Ref. 37) can be positioned to ensure the inside surface of the gear support is tight against the hub of the front gear (Ref. 49).

The above parts group applies to the following Mfg. Nos.:

1693984 860M, 8HP Manual Start
1693985 860M, 8HP Manual Start (Export)
1694242 860E, 8HP Electric Start

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Handles and Controls Group

REF NO.	PART NO.	QTY.	DESCRIPTION
50	1918452	2	PIN, Cotter
51	1918447	2	PIN, Cotter
52	1666255	1	ROD, Shift, 3/8 15 5/16
53	1916964	3	LOCKWASHER, Spring, 1/4
54	1916622	3	NUT, Hex, 1/2-20
55	1720238	1	ROD, Upper Shift, 12 1/2 Long
56	1921159	1	CAPSCREW, Hex Head, 1/4-20 x 2 1/4
57	1668523	1	ROD & CLEVIS ASSEMBLY, Shift
58	1668524	2	BLOCK, Pivot, 3/4 x 3/4
59	1924361	1	WASHER, 1/2
60	1668185	2	BUSHING, 1/2
61	1720240	1	ROD & ARM ASSEMBLY, Pivot
62	1715123	1	SPRING, Torsion, 1/2 Long
63	172038	1	KNOB

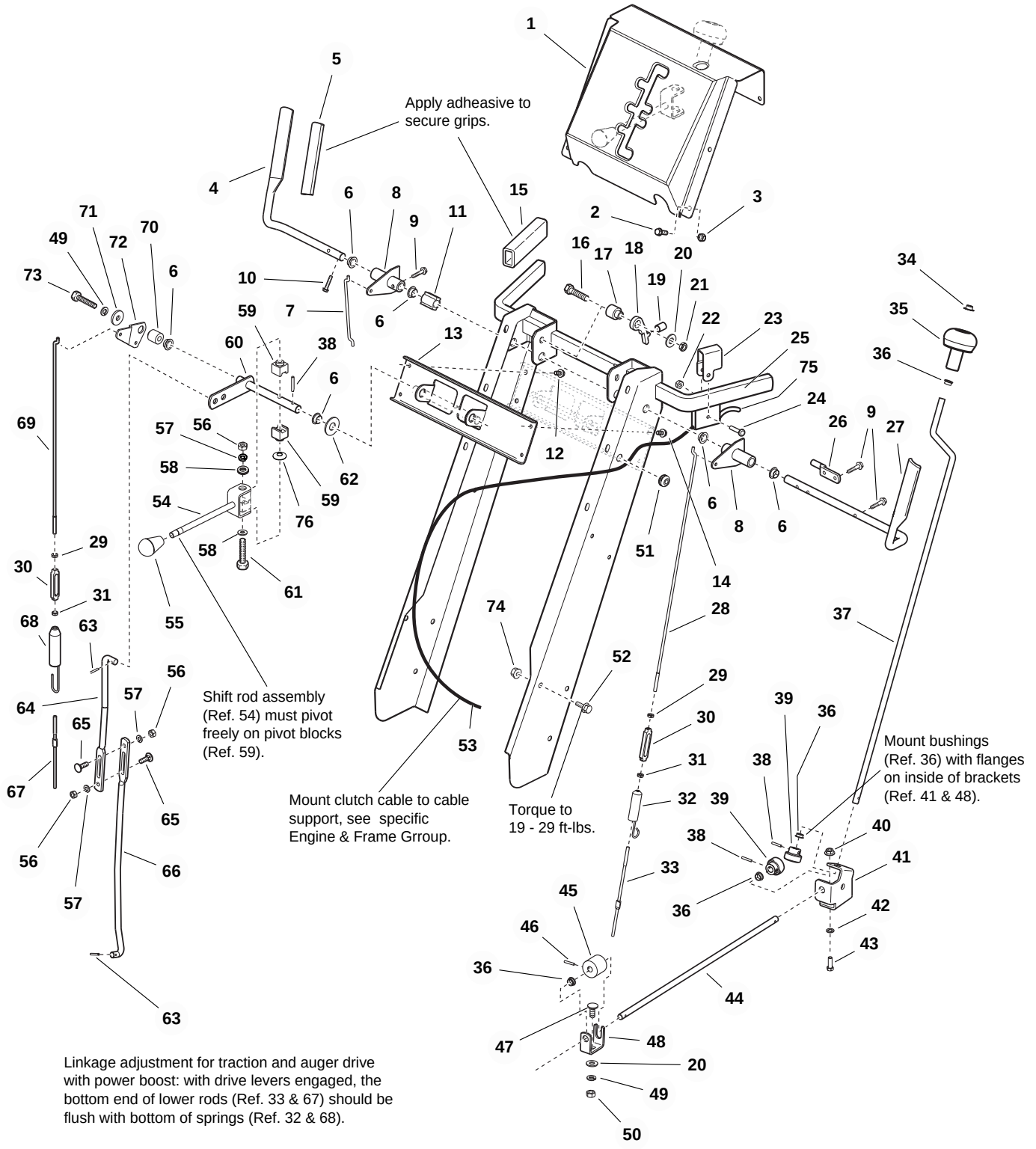
Footnotes:

The above parts group applies to the following Mfg. Nos.:

1693984 860M, 8HP Manual Start
1693985 860M, 8HP Manual Start (Export)
1694242 860E, 8HP Electric Start

Handles and Controls Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Apply adheasive to secure grips.
Shift rod assembly (Ref. 54) must pivot freely on pivot blocks (Ref. 59).
Mount clutch cable to cable support, see specific Engine & Frame Grroup.
Torque to 19 - 29 ft-lbs.
Mount bushings (Ref. 36) with flanges on inside of brackets (Ref. 41 & 48).
Linkage adjustment for traction and auger drive with power boost: with drive levers engaged, the bottom end of lower rods (Ref. 33 & 67) should be flush with bottom of springs (Ref. 32 & 68).

The above parts group applies to the following Mfg. Nos.:

1693652	860DLX, 8HP Manual Start	1694243	970E, 9HP Electrical Start
1693653	860DLX, 8HP Manual Start (Export)	1693656	1180M, 11HP Manual Start
1694241	860DLXE, 8HP Electric Start	1693657	1180M, 11HP Manual Start (Export)
1693654	970M, 9HP Manual Start	1694244	1180E, 11HP Electrical Start
1693655	970M, 9HP Manual Start (Export)		

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Handles and Controls Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1667800	1	DASHBOARD
2	1935450	4	CAPSCREW, Hex Head, 1/4-20 x 3/4
3	1920397	4	NUT, Hex Lock, 1/4-20
4	1612165	1	HANDLE, Clutch, RH
5	1668608	2	GRIP
6	1668185	6	BUSHING, Nylon
7	1702663	1	ROD, Clutch
8	1704255	2	LEVER & TUBE ASSEMBLY, Clutch
9	1960471	4	CAPSCREW, Hex Washer Head, #12-24 x 1
10	1928732	1	CAPSCREW, Hex Washer Head, #10-24 x 1
11	1705899	1	GUIDE, Control
12	1927429	2	CAPSCREW, Hex Washer Head, 1/4-20 x 5/8
13	1668050	1	BRACKET, Shift Control
14	1925003	4	CAPSCREW, Hex Head, Taptite, 1/4-20 x 1/2
15	1671041	2	GRIP
16	1921221	1	CAPSCREW, Hex Head, 5/16-18 x 1 1/2
17	1678579	1	SPACER
18	1705898	1	LATCH, Control
19	1701342	1	SPRING, Compression
20	1919326	2	WASHER, 5/16
21	1923362	1	NUT, Hex, Center Lock, 5/16-18
22	1933896	1	NUT, Hex Lock, #10-24
23	1720747	1	CLAMP, Clutch Cable
24	1960393	1	SCREW, Pan Head, Phillips, #10-24 x 1
25	1720586	1	HANDLE ASSEMBLY
26	1677453	1	ROD, Control17.3” Long
27	1612167	1	HANDLE, Clutch
28	1668121	1	ROD
29	928704	2	NUT, LH, Machine Screw, Hex, #10-24
30	108775	2	TURNBUCKLE
31	1916621	2	NUT, RH, Machine Screw, Hex, #10-24
32	1707452	1	SPRING
33	1668526	1	ROD, Clutch
34	1960093	1	PUSH NUT
35	1714084	1	KNOB, Spinner
36	1667588	4	BUSHING, Nylon
37	1715658	1	ROD, Chute Control
38	1918452	3	PIN, Cotter
39	1718593	2	GEAR, Metal
40	1960294	2	NUT, Hex Flange, 1/4-20
41	1718793	1	SUPPORT, Gear
42	1960518	2	PUSH NUT
43	1960252	2	CARRIAGE BOLT, 1/4-20 x 5/8
44	1668187	1	ROD, Chute
45	1668186	1	GEAR, Worm
46	916168	2	PIN, Spring, 1/8 x 3/4
47	1931333	1	CARRIAGE BOLT, 5/16-18 x 3/4
48	1611911	1	SUPPORT, Worm
49	1917356	2	LOCKWASHER, Spring, 5/16

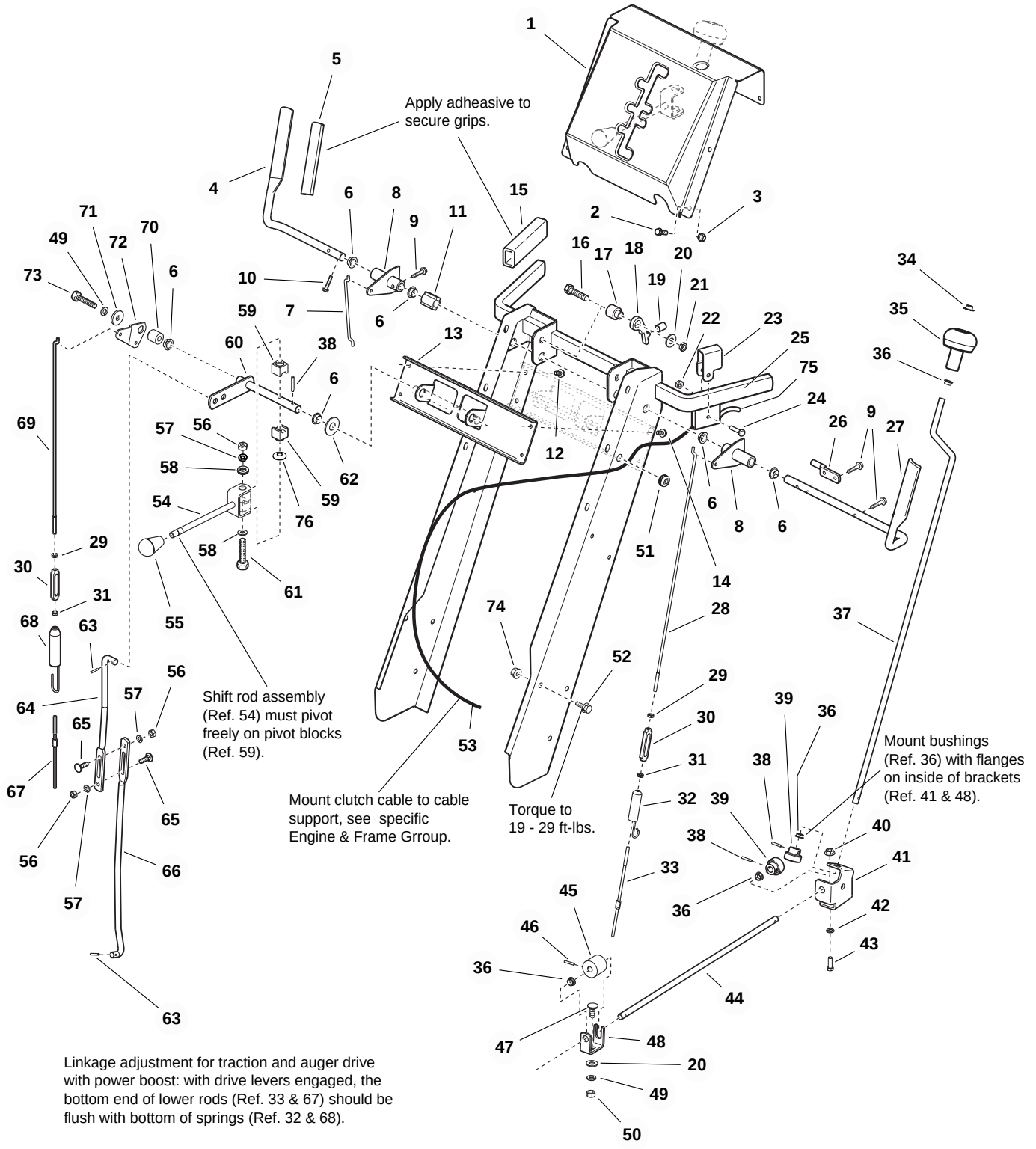
Footnotes:

The above parts group applies to the following Mfg. Nos.:

1693652	860DLX, 8HP Manual Start	1694243	970E, 9HP Electrical Start
1693653	860DLX, 8HP Manual Start (Export)	1693656	1180M, 11HP Manual Start
1694241	860DLXE, 8HP Electric Start	1693657	1180M, 11HP Manual Start (Export)
1693654	970M, 9HP Manual Start	1694244	1180E, 11HP Electrical Start
1693655	970M, 9HP Manual Start (Export)		

985643

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Apply adheasive to secure grips.
Shift rod assembly (Ref. 54) must pivot freely on pivot blocks (Ref. 59).
Mount clutch cable to cable support, see specific Engine & Frame Grroup.
Torque to 19 - 29 ft-lbs.
Mount bushings (Ref. 36) with flanges on inside of brackets (Ref. 41 & 48).
Linkage adjustment for traction and auger drive with power boost: with drive levers engaged, the bottom end of lower rods (Ref. 33 & 67) should be flush with bottom of springs (Ref. 32 & 68).

The above parts group applies to the following Mfg. Nos.:

1693652	860DLX, 8HP Manual Start	1694243	970E, 9HP Electrical Start
1693653	860DLX, 8HP Manual Start (Export)	1693656	1180M, 11HP Manual Start
1694241	860DLXE, 8HP Electric Start	1693657	1180M, 11HP Manual Start (Export)
1693654	970M, 9HP Manual Start	1694244	1180E, 11HP Electric Start
1693655	970M, 9HP Manual Start (Export)		

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Handles and Controls Group

REF NO.	PART NO.	QTY.	DESCRIPTION
50	1917372	1	NUT, Hex, 5/16-18
51	1664022	1	GROMMET
52	1930591	6	CAPSCREW, Hex Whiz Lock, 5/16-18 x 3/4
53	1718791	1	CABLE & HANDLE ASSEMBLY, Clutch (Includes Ref. 75)
54	1714120	1	SHIFT ASSEMBLY, Rod & Clevis
55	1713844	1	KNOB
56	1916622	3	NUT, Hex, 1/4-20
57	1916964	3	LOCKWASHER, Spring, 1/4
58	1921319	1	WASHER, 1/4
59	1668524	2	BLOCK, Pivot
60	1703043	1	ROD & ARM ASSEMBLY, Pivot
61	1921159	1	CAPSCREW, Hex Head, 1/4-20 x 2 1/4
62	1924361	1	WASHER, 1/2
63	1918447	3	PIN, Cotter
64	1720448	1	ROD, Shift, Upper
65	1931317	2	CARRIAGE BOLT, 1/4-20 x 3/4
66	1666255	1	ROD, Shift, Lower
67	1702004	1	ROD, Clutch, Lower
68	1701996	1	SPRING
69	1702485	1	ROD, Clutch, Upper
70	1702552	1	SPACER
71	1919381	1	WASHER, 5/16
72	1702662	1	LEVER, Clutch
73	1922127	1	CAPSCREW, Hex Head, 5/16-18 x 3/4
74	1931277	6	NUT, Hex Flange, 5/16-18
75	1718804	1	TRIGGER ASSEMBLY, Easy Turn Clutch Cable
76	1668681	1	WASHER, Curved, 1/2

Footnotes:

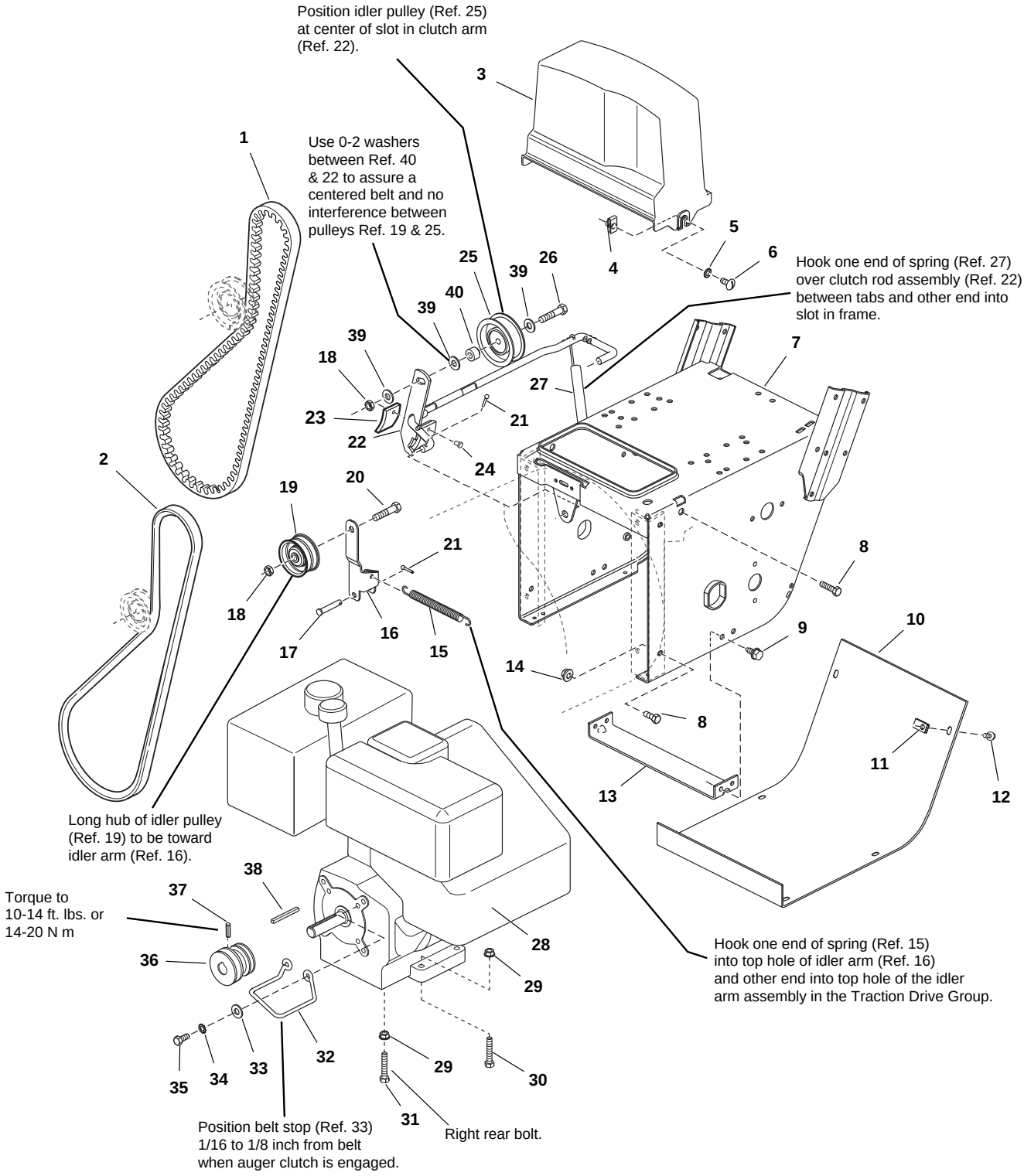
The above parts group applies to the following Mfg. Nos.:

1693652	860DLX, 8HP Manual Start	1694243	970E, 9HP Electrical Start
1693653	860DLX, 8HP Manual Start (Export)	1693656	1180M, 11HP Manual Start
1694241	860DLXE, 8HP Electric Start	1693657	1180M, 11HP Manual Start (Export)
1693654	970M, 9HP Manual Start	1694244	1180E, 11HP Electric Start
1693655	970M, 9HP Manual Start (Export)		

Engine & Frame Group - 8HP, Manual Start

985633

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 25) at center of slot in clutch arm (Ref. 22).
Use 0-2 washers between Ref. 40 & 22 to assure a centered belt and no interference between pulleys Ref. 19 & 25.
Hook one end of spring (Ref. 27) over clutch rod assembly (Ref. 22) between tabs and other end into slot in frame.
Long hub of idler pulley (Ref. 19) to be toward idler arm (Ref. 16).
Torque to 10-14 ft. lbs. or 14-20 N m
Hook one end of spring (Ref. 15) into top hole of idler arm (Ref. 16) and other end into top hole of the idler arm assembly in the Traction Drive Group.
Position belt stop (Ref. 33) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt.

The above parts group applies to the following Mfg. Nos.:

1693650 860M, 8HP Manual Start
1693651 860M, 8HP Manual Start (Export)

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Engine & Frame Group - 8HP, Manual Start

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1672732	1	BELT, Traction
2	1666655	1	BELT, Drive Auger
3	1667516	1	GUARD, Belt
4	1935255	2	NUT, Speed, 5/16-18
5	920426	2	LOCKWASHER, Ext. Tooth, 5/16
6	1918249	2	SCREW, Truss Head, 5/16-18 x 3/4
7	1720408	1	FRAME, Main
8	1930591	4	CAPSCREW, Whizlock, 5/16-18 x 3/4
9	1664847	4	CAPSCREW, Taptite, 5/16-18 x 3/8
10	1666374	1	COVER, Bottom
11	1926018	6	NUT, Speed, 1/4-20
12	1925003	6	CAPSCREW, Taptite,1/4-20 x 1/2
13	1669198	1	SUPPORT, Tie Bar
14	1927557	4	NUT, Hex, Whizlock, 5/16-18
15	1672735	1	SPRING, Idler
16	1703046	1	ARM, Idler, Traction
17	1665994	1	PIN
18	1928731	2	LOCKNUT, Jam, 3/8-16
19	1668477	1	PULLEY, Idler
20	1960647	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
21	1918451	2	PIN, Cotter, 1/8 x 3/4
22	1612200	1	CLUTCH ROD & BRAKE ASSEMBLY
23	1669313	1	PAD, Brake
24	925160	2	RIVET, Pop
25	154534	1	PULLEY
26	1921971	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
27	1701595	1	SPRING, Extension
28	*	1	ENGINE, Tecumseh, 8 H.P. Manual Start - Engine Model # HMSK110, Engine Type # 155670V
29	1931277	4	NUT, Hex, 5/16-18
30	1922127	3	CAPSCREW, Hex Head, 5/16-18 x 1 3/4
31	1921978	4	CAPSCREW, Hex Head, 5/16-18 x 2
32	1668174	1	GUIDE, Belt
33	1919326	6	WASHER,11/32 x 3/4
34	1917356	2	LOCKWASHER, 5/16
35	1921515	2	CAPSCREW, Hex Head, 5/16-24 x 3/4
36	1666109	1	PULLEY, Traction
37	1930540	1	SETSCREW, .625 LG
38	8221042	1	KEY, Parallel, 3/16 x 13/16 x 7/8
39	1924940	3	WASHER, Flat,13/32
40	157081	1	SPACER

Footnotes:

***** See your local Tecumseh distributor for Parts and Service.

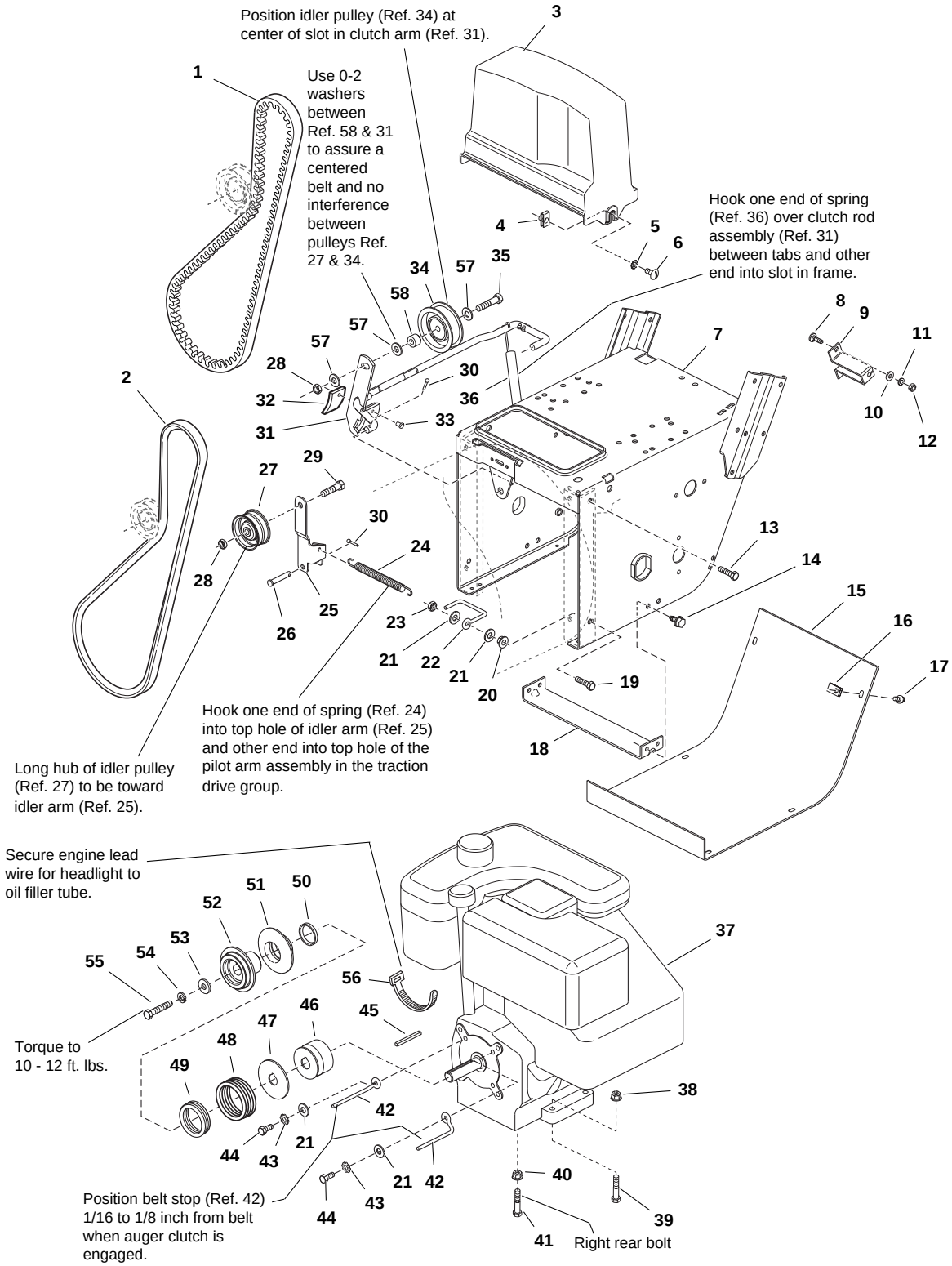
The above parts group applies to the following Mfg. Nos.:

1693650 860M, 8HP Manual Start
1693651 860M, 8HP Manual Start (Export)

Engine & Frame Group - 8HP, Manual Start

985634

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 34) at center of slot in clutch arm (Ref. 31).
Use 0-2 washers between Ref. 58 & 31 to assure a centered belt and no interference between pulleys Ref. 27 & 34.
Hook one end of spring (Ref. 36) over clutch rod assembly (Ref. 31) between tabs and other end into slot in frame.
Long hub of idler pulley (Ref. 27) to be toward idler arm (Ref. 25).
Hook one end of spring (Ref. 24) into top hole of idler arm (Ref. 25) and other end into top hole of the pilot arm assembly in the traction drive group.
Secure engine lead wire for headlight to oil filler tube.
Torque to 10 - 12 ft. lbs.
Position belt stop (Ref. 42) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt

The above parts group applies to the following Mfg. Nos.:

1693652 860DLX, 8HP Manual Start
1693653 860DLX, 8HP Manual Start (Export)

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Engine & Frame Group - 8HP, Manual Start

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1672732	1	BELT, Traction
2	1701257	1	BELT, Auger Drive
3	1667516	1	GUARD, Belt
4	1935255	2	NUT, Speed, 5/16-18
5	920426	2	LOCKWASHER, Ext. Tooth, 5/16
6	1918249	2	SCREW, Truss Head, 5/16-18 x 3/4
7	1720235	1	FRAME, Main
8	1931317	2	CARRIAGE BOLT, 1/4-20 x 3/4
9	1720404	1	SUPPORT, Clutch Cable
10	1921319	2	WASHER, 1/4
11	1916964	2	LOCKWASHER, Spring, 1/4
12	1916622	2	NUT, Hex 1/4-20
13	1930591	2	CAPSCREW, Whizlock, 5/16-18 x 3/4
14	1664847	4	CAPSCREW, Taptite, 5/16-18 x 3/8
15	1666374	1	COVER, Bottom
16	1926018	6	NUT, Speed, 1/4-20
17	1925003	6	CAPSCREW, Taptite,1/4-20 x 1/2
18	1669198	1	SUPPORT, Tie Bar
19	1930595	2	CAPSCREW, Whizlock, 5/16-18 x 1-1/4
20	1927557	4	NUT, Hex, Whizlock, 5/16-18
21	1919326	6	WASHER,11/32 x 3/4
22	1702969	2	GUIDE, Belt
23	1923362	2	NUT, Hex, Centerlock, 5/16-18
24	1672735	1	SPRING, Idler
25	1703046	1	ARM, Idler, Traction
26	1665994	1	PIN
27	1668477	1	PULLEY, Idler
28	1928731	2	LOCKNUT, Jam, 3/8-16
29	1960647	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
30	1918451	2	PIN,Cotter,1/8 x 3/4
31	1612200	1	CLUTCH ROD & BRAKE ASSEMBLY
32	1669313	1	PAD, Brake
33	925160	2	RIVET, Pop
34	154534	1	PULLEY
35	1921971	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
36	1701595	1	SPRING, Extension
37	*	1	ENGINE, Tecumseh, 8 H.P. Manual Start - Engine Model # OSHK80, Engine Type # 221202A
38	1931277	3	NUT, Hex, 5/16-18, Black
39	1922127	3	CAPSCREW, Hex Head, 5/16-18 x 2, Black
40	1931277	1	NUT, Hex Flange, 5/16-18
41	1922127	1	CAPSCREW, Hex Head, 5/16-18 x 1-3/4
42	1702970	2	GUIDE, Belt
43	1917356	2	LOCKWASHER, 5/16
44	1921515	2	CAPSCREW, Hex Head, 5/16-24 x 3/4
45	1672129	1	KEY, Parallel, 3/16 x 13/16 x 7/8
46	1701783	1	PULLEY, Traction
47	1701818	1	WASHER, Thrust
48	1702425	1	SPRING, Compression

Footnotes:

* See your local Tecumseh distributor for Parts and Service.

** Not a Service Part.

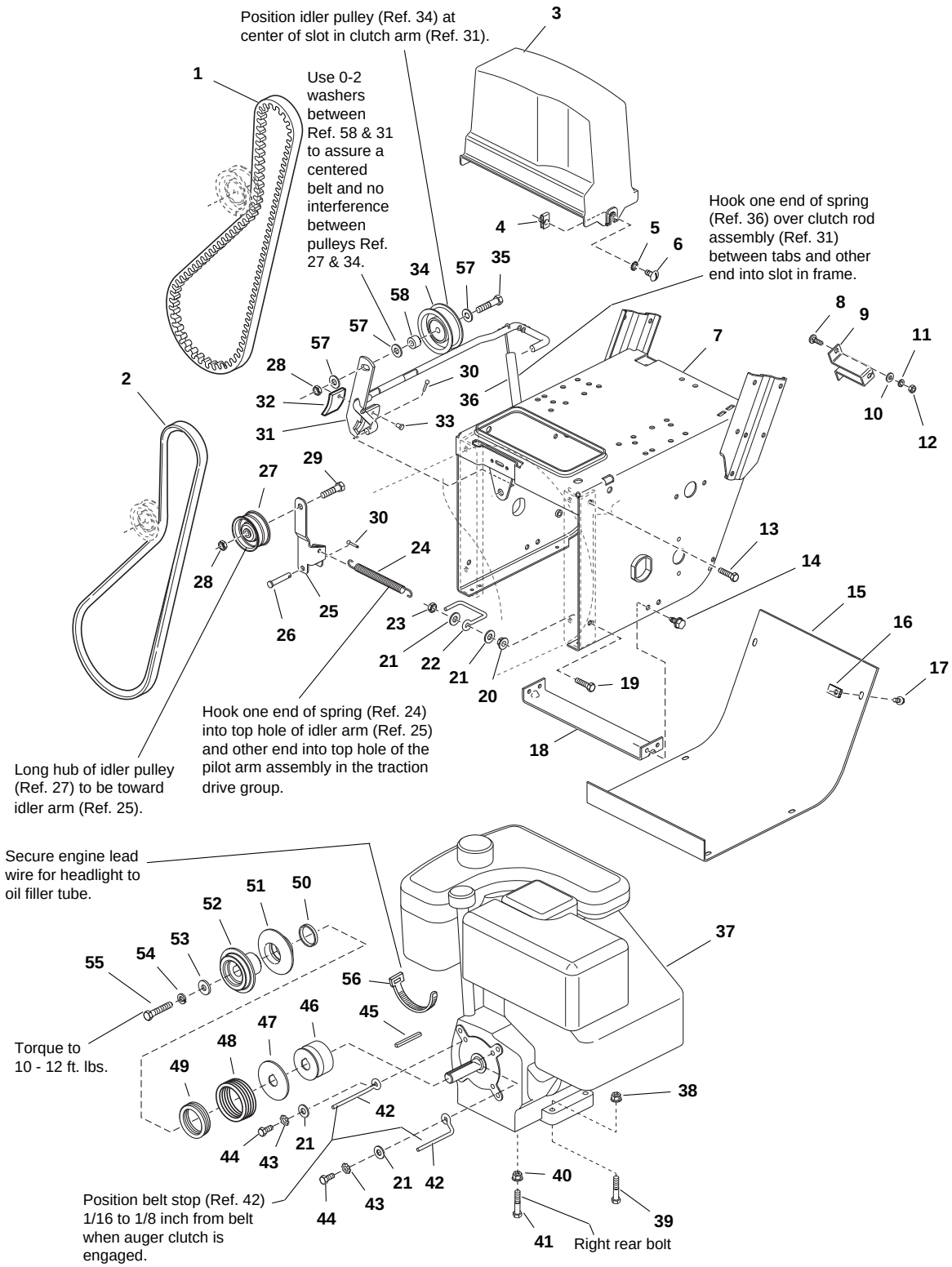
The above parts group applies to the following Mfg. Nos.:

1693652 860DLX, 8HP Manual Start
1693653 860DLX, 8HP Manual Start (Export)

Engine & Frame Group - 8HP, Manual Start

985634

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 34) at center of slot in clutch arm (Ref. 31).
Use 0-2 washers between Ref. 58 & 31 to assure a centered belt and no interference between pulleys Ref. 27 & 34.
Hook one end of spring (Ref. 36) over clutch rod assembly (Ref. 31) between tabs and other end into slot in frame.
Long hub of idler pulley (Ref. 27) to be toward idler arm (Ref. 25).
Hook one end of spring (Ref. 24) into top hole of idler arm (Ref. 25) and other end into top hole of the pilot arm assembly in the traction drive group.
Secure engine lead wire for headlight to oil filler tube.
Torque to 10 - 12 ft. lbs.
Position belt stop (Ref. 42) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt

The above parts group applies to the following Mfg. Nos.:

1693652 860DLX, 8HP Manual Start
1693653 860DLX, 8HP Manual Start (Export)

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Engine & Frame Group - 8HP, Manual Start

REF NO.	PART NO.	QTY.	DESCRIPTION
49	1702979	1	SPRING, Compression
50	**	1	WICK, Oil
51	1702017	1	PULLEY, Drive
52	1701776	1	PULLEY, Drive
53	1922755	1	WASHER,13/32 x 1
54	1916965	1	LOCKWASHER, Spring, 3/8
55	1960345	1	CAPSCREW, Hex Head, 3/8-24 x 2
56	1701011	1	TIE, Self Locking
57	1924940	3	WASHER, Flat,13/32
58	157081	1	SPACER

Footnotes:

* See your local Tecumseh distributor for Parts and Service.

** Not a Service Part.

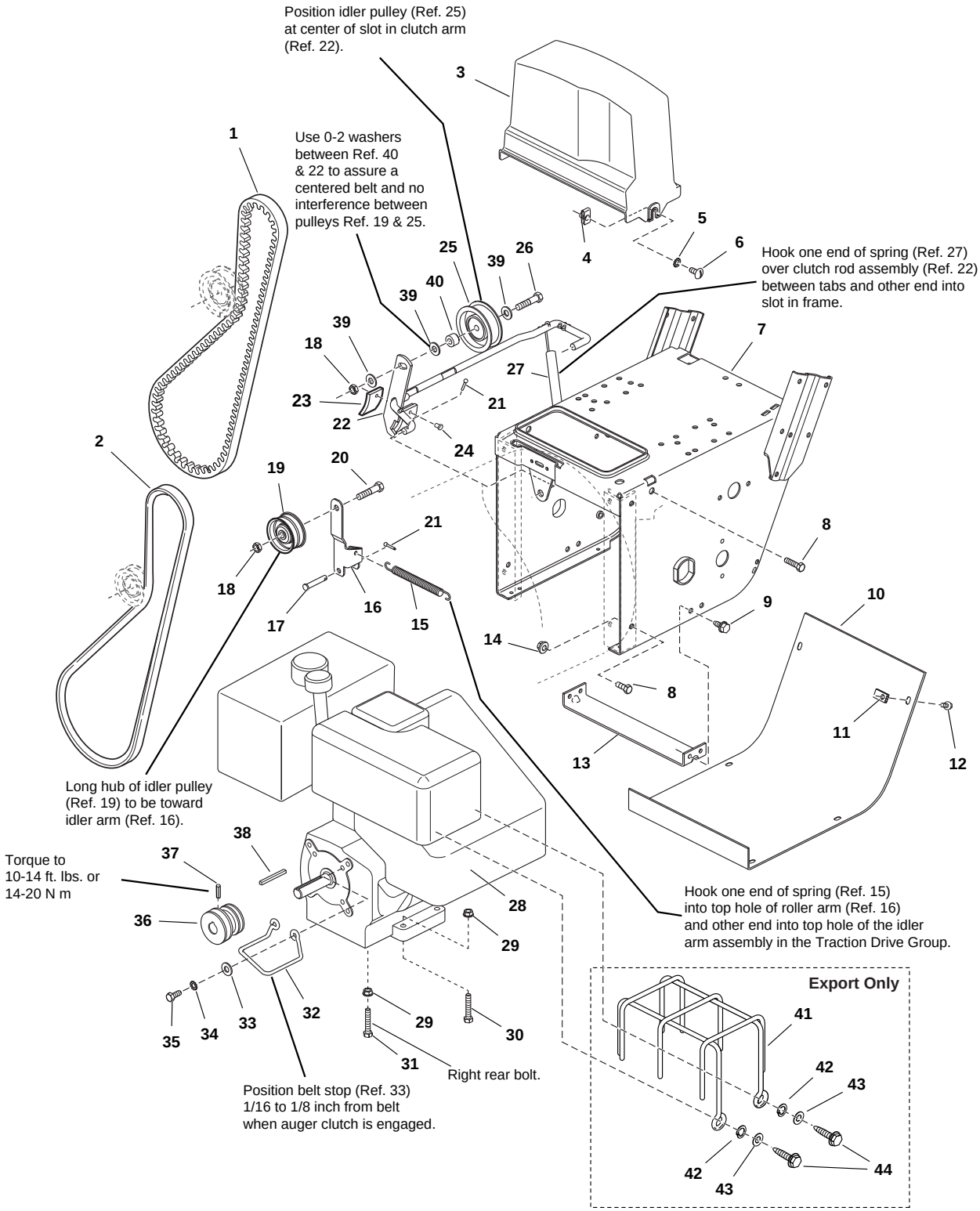
The above parts group applies to the following Mfg. Nos.:

1693652 860DLX, 8HP Manual Start
1693653 860DLX, 8HP Manual Start (Export)

Engine & Frame Group - 8HP, Manual Start

985773

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 25) at center of slot in clutch arm (Ref. 22).
Use 0-2 washers between Ref. 40 & 22 to assure a centered belt and no interference between pulleys Ref. 19 & 25.
Hook one end of spring (Ref. 27) over clutch rod assembly (Ref. 22) between tabs and other end into slot in frame.
Long hub of idler pulley (Ref. 19) to be toward idler arm (Ref. 16).
Torque to 10-14 ft. lbs. or 14-20 N m
Hook one end of spring (Ref. 15) into top hole of roller arm (Ref. 16) and other end into top hole of the idler arm assembly in the Traction Drive Group.
Position belt stop (Ref. 33) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt.
Export Only

The above parts group applies to the following Mfg. Nos.:

1693763 860M, 8HP Manual Start
1693775 860M, 8HP Manual Start (Export)
1693984 860M, 8HP Manual Start
1693985 860M, 8HP Manual Start (Export)

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Engine & Frame Group - 8HP, Manual Start

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1672732	1	BELT, Traction
2	1666655	1	BELT, Drive Auger
3	1667516	1	GUARD, Belt
4	1935255	2	NUT, Speed, 5/16-18
5	920426	2	LOCKWASHER, Ext. Tooth, 5/16
6	1918249	2	SCREW, Truss Head, 5/16-18 x 3/4
7	1721560	1	FRAME, Main
8	1930591	4	CAPSCREW, Whizlock, 5/16-18 x 3/4
9	1664847	4	CAPSCREW, Taptite, 5/16-18 x 3/8
10	1666374	1	COVER, Bottom
11	1926018	6	NUT, Speed, 1/4-20
12	1925003	6	CAPSCREW, Taptite,1/4-20 x 1/2
13	1669198	1	SUPPORT, Tie Bar
14	1927557	4	NUT, Hex, Whizlock, 5/16-18
15	1672735	1	SPRING, Idler
16	1703046	1	ARM, Idler, Traction
17	1665994	1	PIN
18	1928731	2	LOCKNUT, Jam, 3/8-16
19	1668477	1	PULLEY, Idler
20	1960647	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
21	1918451	2	PIN, Cotter, 1/8 x 3/4
22	1612200	1	CLUTCH ROD & BRAKE ASSEMBLY
23	1669313	1	PAD, Brake
24	925160	2	RIVET, Pop
25	154534	1	PULLEY
26	1921971	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
27	1701595	1	SPRING, Extension
28	*	1	ENGINE, Tecumseh, 8 H.P. Manual Start - Engine Model # HMSK110, Engine Type # 155670V
29	1931277	4	NUT, Hex, 5/16-18
30	1922127	3	CAPSCREW, Hex Head, 5/16-18 x 1 3/4
31	1921978	4	CAPSCREW, Hex Head, 5/16-18 x 2
32	1668174	1	GUIDE, Belt
33	1919326	6	WASHER,11/32 x 3/4
34	1917356	2	LOCKWASHER, 5/16
35	1921515	2	CAPSCREW, Hex Head, 5/16-24 x 3/4
36	1666109	1	PULLEY, Traction
37	1930540	1	SETSCREW, .625 LG
38	8221042	1	KEY, Parallel, 3/16 x 13/16 x 7/8
39	1924940	3	WASHER, Flat,13/32
40	157081	1	SPACER
41	1720878	1	GUARD, Wire Muffler Sheild (Export Only)
42	1917365	1	LOCKWASHER, Spring 3/16 (Export Only)
43	1910531	1	WASHER, Rivet 3/16 (Export Only)
44	1720879	1	CAPSCREW, Hex Washer Head, Self Tap (Export Only)

Footnotes:

* See your local Tecumseh distributor for Parts and Service.

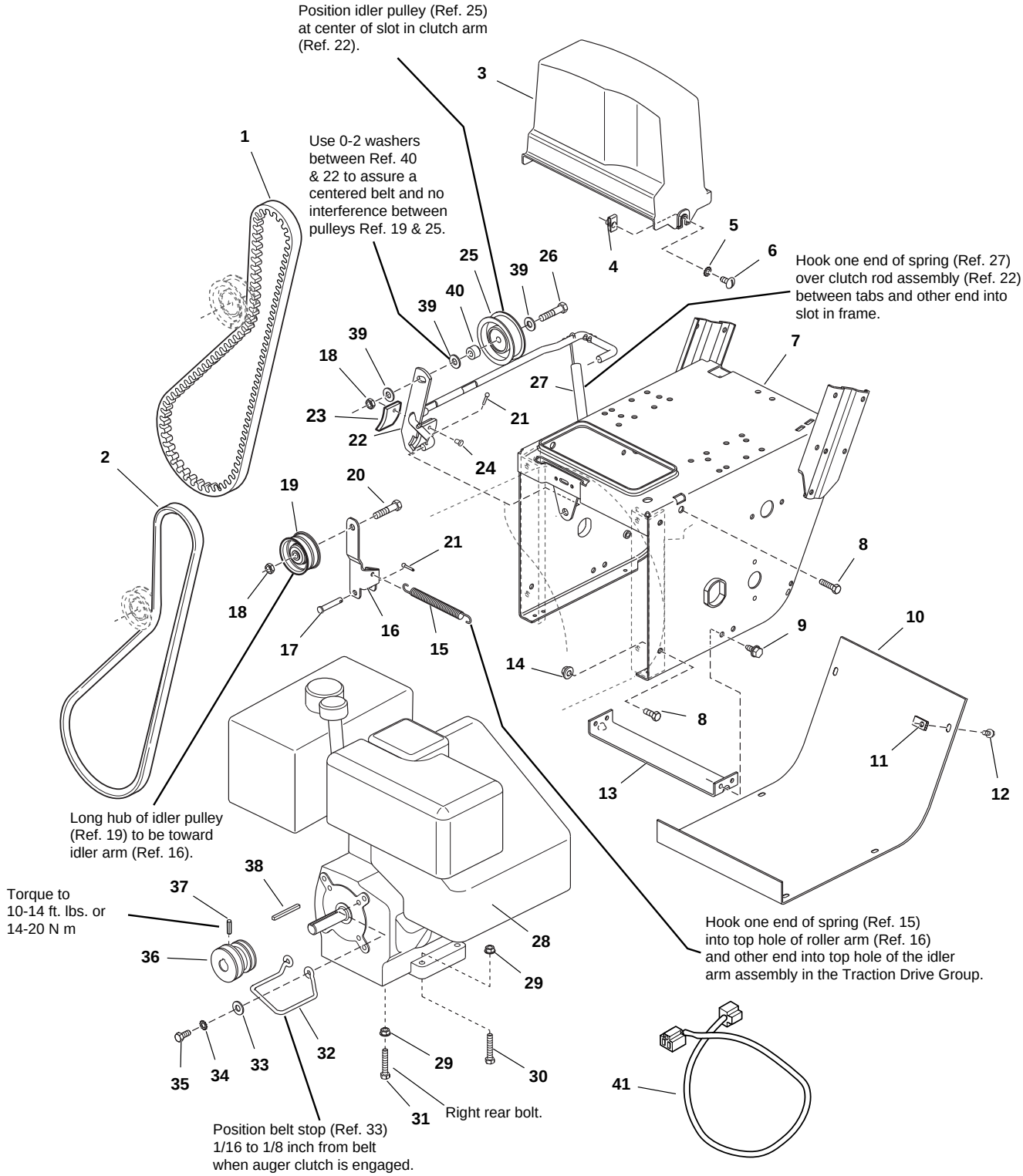
The above parts group applies to the following Mfg. Nos.:

1693763 860M, 8HP Manual Start
1693775 860M, 8HP Manual Start (Export)
1693984 860M, 8HP Manual Start
1693985 860M, 8HP Manual Start (Export)

Engine & Frame Group - 8HP, Electric Start

986111

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 25) at center of slot in clutch arm (Ref. 22).
Use 0-2 washers between Ref. 40 & 22 to assure a centered belt and no interference between pulleys Ref. 19 & 25.
Hook one end of spring (Ref. 27) over clutch rod assembly (Ref. 22) between tabs and other end into slot in frame.
Long hub of idler pulley (Ref. 19) to be toward idler arm (Ref. 16).
Torque to 10-14 ft. lbs. or 14-20 N m
Hook one end of spring (Ref. 15) into top hole of roller arm (Ref. 16) and other end into top hole of the idler arm assembly in the Traction Drive Group.
Position belt stop (Ref. 33) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt.

The above parts group applies to the following Mfg. Nos.:

1694242 860E, 8HP Electric Start

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Engine & Frame Group - 8HP, Electric Start

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1672732	1	BELT, Traction
2	1666655	1	BELT, Drive Auger
3	1667516	1	GUARD, Belt
4	1935255	2	NUT, Speed, 5/16-18
5	920426	2	LOCKWASHER, Ext. Tooth, 5/16
6	1918249	2	SCREW, Truss Head, 5/16-18 x 3/4
7	1721560	1	FRAME, Main
8	1930591	4	CAPSCREW, Whizlock, 5/16-18 x 3/4
9	1664847	4	CAPSCREW, Taptite, 5/16-18 x 3/8
10	1666374	1	COVER, Bottom
11	1926018	6	NUT, Speed, 1/4-20
12	1925003	6	CAPSCREW, Taptite,1/4-20 x 1/2
13	1669198	1	SUPPORT, Tie Bar
14	1927557	4	NUT, Hex, Whizlock, 5/16-18
15	1672735	1	SPRING, Idler
16	1703046	1	ARM, Idler, Traction
17	1665994	1	PIN
18	1928731	2	LOCKNUT, Jam, 3/8-16
19	1668477	1	PULLEY, Idler
20	1960647	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
21	1918451	2	PIN, Cotter, 1/8 x 3/4
22	1612200	1	CLUTCH ROD & BRAKE ASSEMBLY
23	1669313	1	PAD, Brake
24	925160	2	RIVET, Pop
25	154534	1	PULLEY
26	1921971	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
27	1701595	1	SPRING, Extension
28	*	1	ENGINE, Tecumseh, 8 H.P. Electric Start - Engine Model # HMSK80, Engine Type # 155670W
29	1931277	4	NUT, Hex, 5/16-18
30	1922127	3	CAPSCREW, Hex Head, 5/16-18 x 1-3/4
31	1921978	4	CAPSCREW, Hex Head, 5/16-18 x 2
32	1668174	1	GUIDE, Belt
33	1919326	6	WASHER,11/32 x 3/4
34	1917356	2	LOCKWASHER, 5/16
35	1921515	2	CAPSCREW, Hex Head, 5/16-24 x 3/4
36	1666109	1	PULLEY, Traction
37	1930540	1	SETSCREW, .625 LG
38	8221042	1	KEY, Parallel, 3/16 x 13/16 x 7/8
39	1924940	3	WASHER, Flat,13/32
40	157081	1	SPACER
41	1717432	1	CORD, Electrical, 3 Prong

Footnotes:

* See your local Tecumseh distributor for Parts and Service.

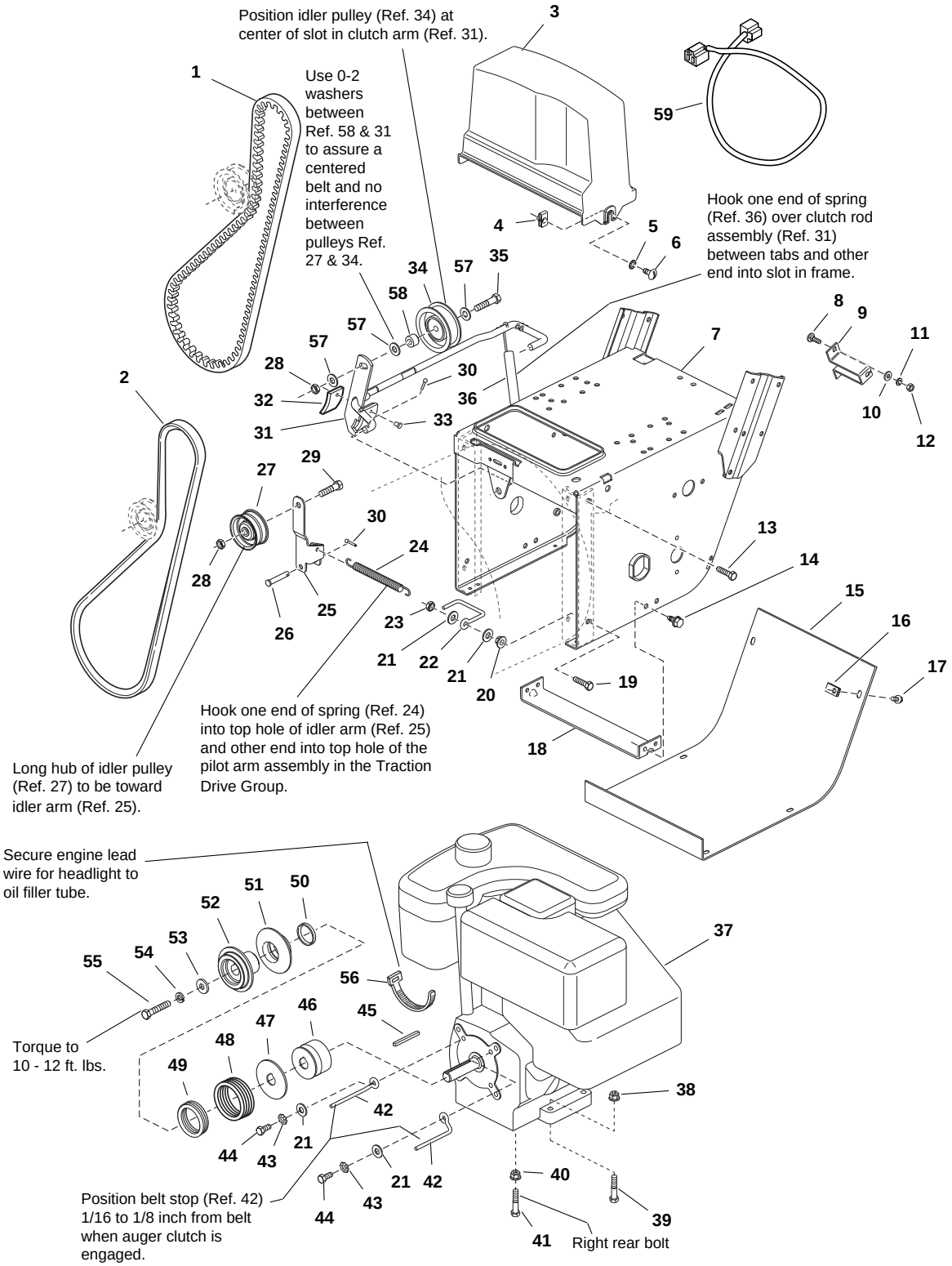
The above parts group applies to the following Mfg. Nos.:

1694242 860E, 8HP Electric Start

Engine & Frame Group - 8HP, Electric Start

986095

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 34) at center of slot in clutch arm (Ref. 31).
Use 0-2 washers between Ref. 58 & 31 to assure a centered belt and no interference between pulleys Ref. 27 & 34.
Hook one end of spring (Ref. 36) over clutch rod assembly (Ref. 31) between tabs and other end into slot in frame.
Long hub of idler pulley (Ref. 27) to be toward idler arm (Ref. 25).
Hook one end of spring (Ref. 24) into top hole of idler arm (Ref. 25) and other end into top hole of the pilot arm assembly in the Traction Drive Group.
Secure engine lead wire for headlight to oil filler tube.
Torque to 10 - 12 ft. lbs.
Position belt stop (Ref. 42) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt

The above parts group applies to the following Mfg. Nos.:

1694241 860DLXE, 8HP Electric Start

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Engine & Frame Group - 8HP, Electric Start

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1672732	1	BELT, Traction
2	1701257	1	BELT, Auger Drive
3	1667516	1	GUARD, Belt
4	1935255	2	NUT, Speed, 5/16-18
5	920426	2	LOCKWASHER, Ext. Tooth, 5/16
6	1918249	2	SCREW, Truss Head, 5/16-18 x 3/4
7	1720235	1	FRAME, Main
8	1931317	2	CARRIAGE BOLT, 1/4-20 x 3/4
9	1720404	1	SUPPORT, Clutch Cable
10	1921319	2	WASHER, 1/4
11	1916964	2	LOCKWASHER, Spring, 1/4
12	1916622	2	NUT, Hex 1/4-20
13	1930591	2	CAPSCREW, Whizlock, 5/16-18 x 3/4
14	1664847	4	CAPSCREW, Taptite, 5/16-18 x 3/8
15	1666374	1	COVER, Bottom
16	1926018	6	NUT, Speed, 1/4-20
17	1925003	6	CAPSCREW, Taptite,1/4-20 x 1/2
18	1669198	1	SUPPORT, Tie Bar
19	1930595	2	CAPSCREW, Whizlock, 5/16-18 x 1-1/4
20	1927557	4	NUT, Hex, Whizlock, 5/16-18
21	1919326	6	WASHER,11/32 x 3/4
22	1702969	2	GUIDE, Belt
23	1923362	2	NUT, Hex, Centerlock, 5/16-18
24	1672735	1	SPRING, Idler
25	1703046	1	ARM, Idler, Traction
26	1665994	1	PIN
27	1668477	1	PULLEY, Idler
28	1928731	2	LOCKNUT, Jam, 3/8-16
29	1960647	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
30	1918451	2	PIN,Cotter,1/8 x 3/4
31	1612200	1	CLUTCH ROD & BRAKE ASSEMBLY
32	1669313	1	PAD, Brake
33	925160	2	RIVET, Pop
34	154534	1	PULLEY
35	1921971	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
36	1701595	1	SPRING, Extension
37	*	1	ENGINE, Tecumseh, 8 H.P. Electric Start - Engine Model # OSHK80, Engine Type # 221202A
38	1931277	3	NUT, Hex, 5/16-18, Black
39	1922127	3	CAPSCREW, Hex Head, 5/16-18 x 2, Black
40	1931277	1	NUT, Hex Flange, 5/16-18
41	1922127	1	CAPSCREW, Hex Head, 5/16-18 x 1-3/4
42	1702970	2	GUIDE, Belt
43	1917356	2	LOCKWASHER, 5/16
44	1921515	2	CAPSCREW, Hex Head, 5/16-24 x 3/4
45	1672129	1	KEY, Parallel, 3/16 x 13/16 x 7/8
46	1701783	1	PULLEY, Traction
47	1701818	1	WASHER, Thrust
48	1702425	1	SPRING, Compression

Footnotes:

* See your local Tecumseh distributor for Parts and Service.

** Not a Service Part.

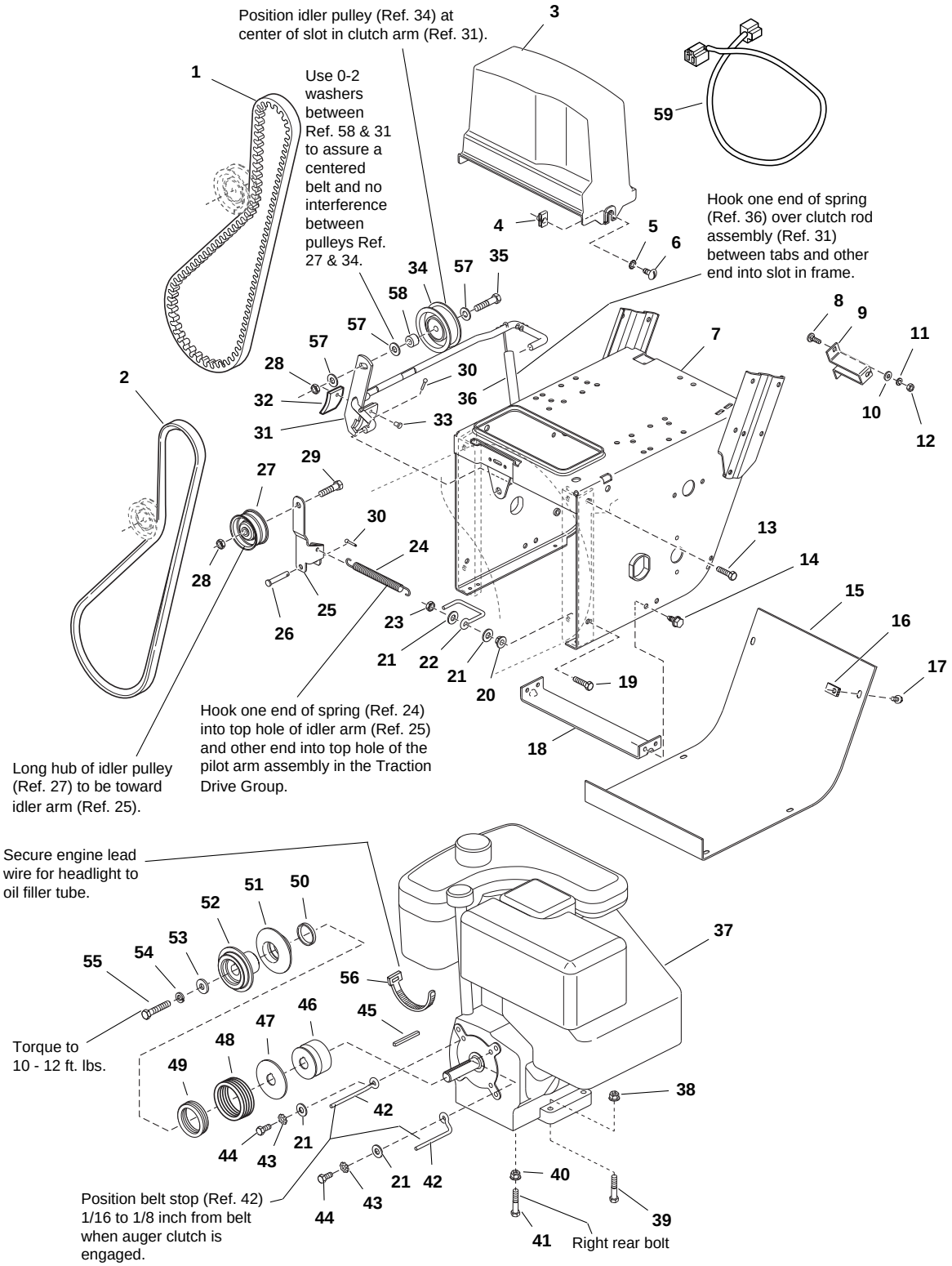
The above parts group applies to the following Mfg. Nos.:

1694241 860DLXE, 8HP Electric Start

Engine & Frame Group - 8HP, Electric Start

986095

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 34) at center of slot in clutch arm (Ref. 31).
Use 0-2 washers between Ref. 58 & 31 to assure a centered belt and no interference between pulleys Ref. 27 & 34.
Hook one end of spring (Ref. 36) over clutch rod assembly (Ref. 31) between tabs and other end into slot in frame.
Hook one end of spring (Ref. 24) into top hole of idler arm (Ref. 25) and other end into top hole of the pilot arm assembly in the Traction Drive Group.
Long hub of idler pulley (Ref. 27) to be toward idler arm (Ref. 25).
Secure engine lead wire for headlight to oil filler tube.
Torque to 10 - 12 ft. lbs.
Position belt stop (Ref. 42) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt

The above parts group applies to the following Mfg. Nos.:

1694241 860DLXE, 8HP Electric Start

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Engine & Frame Group - 8HP, Electric Start

REF NO.	PART NO.	QTY.	DESCRIPTION
49	1702979	1	SPRING, Compression
50	**	1	WICK, Oil
51	1702017	1	PULLEY, Drive
52	1701776	1	PULLEY, Drive
53	1922755	1	WASHER,13/32 x 1
54	1916965	1	LOCKWASHER, Spring, 3/8
55	1960345	1	CAPSCREW, Hex Head, 3/8-24 x 2
56	1701011	1	TIE, Self Locking
57	1924940	3	WASHER, Flat,13/32
58	157081	1	SPACER
59	1717432	1	CORD, Electric, 3 Prong

Footnotes:

* See your local Tecumseh distributor for Parts and Service.

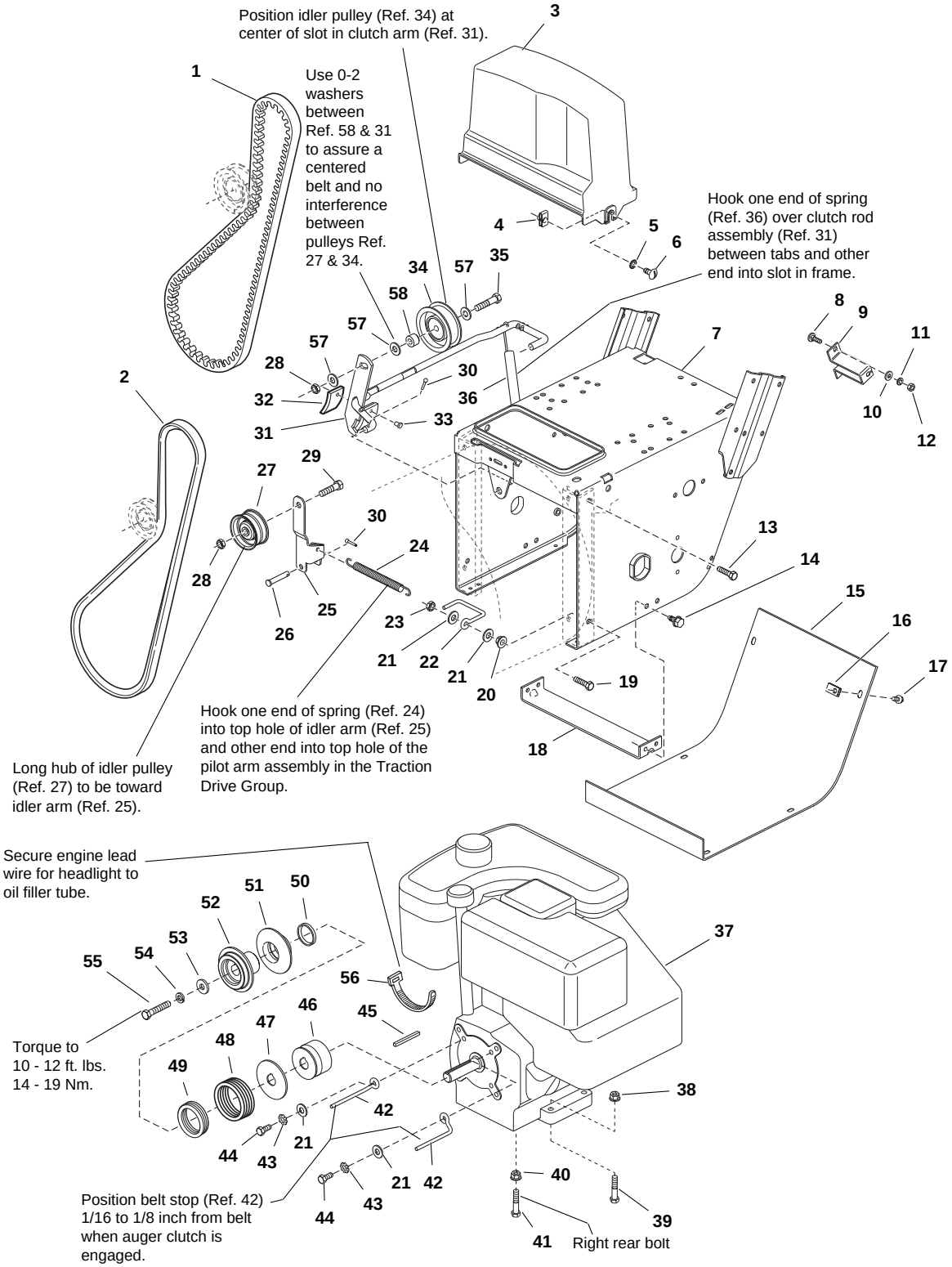
** Not a Service Part.

The above parts group applies to the following Mfg. Nos.:

1694241 860DLXE, 8HP Electric Start

985635

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 34) at center of slot in clutch arm (Ref. 31).
Use 0-2 washers between Ref. 58 & 31 to assure a centered belt and no interference between pulleys Ref. 27 & 34.
Hook one end of spring (Ref. 36) over clutch rod assembly (Ref. 31) between tabs and other end into slot in frame.
Hook one end of spring (Ref. 24) into top hole of idler arm (Ref. 25) and other end into top hole of the pilot arm assembly in the Traction Drive Group.
Long hub of idler pulley (Ref. 27) to be toward idler arm (Ref. 25).
Secure engine lead wire for headlight to oil filler tube.
Torque to 10 - 12 ft. lbs. 14 - 19 Nm.
Position belt stop (Ref. 42) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt

The above parts group applies to the following Mfg. Nos.:

1693654 970M, 9HP Manual Start
1693655 970M, 9HP Manual Start (Export)

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Engine & Frame Group - 9HP, Manual Start

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1672732	1	BELT, Traction
2	1701257	1	BELT, Auger Drive
3	1667516	1	GUARD, Belt
4	1935255	2	NUT, Speed, 5/16-18
5	920426	2	LOCKWASHER, Ext. Tooth, 5/16
6	1918249	2	SCREW, Truss Head, 5/16-18 x 3/4
7	1720235	1	FRAME, Main
8	1931317	2	CARRIAGE BOLT, 1/4-20 x 3/4
9	1720404	1	SUPPORT, Clutch Cable
10	1921319	2	WASHER, 1/4
11	1916964	2	LOCKWASHER, Spring, 1/4
12	1916622	2	NUT, Hex 1/4-20
13	1930591	2	CAPSCREW, Whizlock, 5/16-18 x 3/4
14	1664847	4	CAPSCREW, Taptite, 5/16-18 x 3/8
15	1666374	1	COVER, Bottom
16	1926018	6	NUT, Speed, 1/4-20
17	1925003	6	CAPSCREW, Taptite,1/4-20 x 1/2
18	1669198	1	SUPPORT, Tie Bar
19	1930595	2	CAPSCREW, Whizlock, 5/16-18 x 1-1/4
20	1927557	4	NUT, Hex, Whizlock, 5/16-18
21	1919326	6	WASHER,11/32 x 3/4
22	1702969	2	GUIDE, Belt
23	1923362	2	NUT, Hex, Centerlock, 5/16-18
24	1672735	1	SPRING, Idler
25	1703046	1	ARM, Idler, Traction
26	1665994	1	PIN
27	1668477	1	PULLEY, Idler
28	1928731	2	LOCKNUT, Jam, 3/8-16
29	1960647	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
30	1918451	2	PIN,Cotter,1/8 x 3/4
31	1612200	1	CLUTCH ROD & BRAKE ASSEMBLY
32	1669313	1	PAD, Brake
33	925160	2	RIVET, Pop
34	154534	1	PULLEY
35	1921971	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
36	1701595	1	SPRING, Extension
37	*	1	ENGINE, Tecumseh, 9 H.P. Manual Start - Engine Model # OSHK90, Engine Type # 221408A
38	1931277	3	NUT, Hex, 5/16-18, Black
39	1922127	3	CAPSCREW, Hex Head, 5/16-18 x 2, Black
40	1931277	1	NUT, Hex Flange, 5/16-18
41	1921978	1	CAPSCREW, Hex Head, 5/16-18 x 2
42	1702970	2	GUIDE, Belt
43	1917356	2	LOCKWASHER, 5/16
44	1921515	2	CAPSCREW, Hex Head, 5/16-24 x 3/4
45	1672129	1	KEY, Parallel, 3/16 x 13/16 x 7/8
46	1701783	1	PULLEY, Traction
47	1701818	1	WASHER, Thrust
48	1702425	1	SPRING, Compression

Footnotes:

* See your local Tecumseh distributor for Parts and Service.

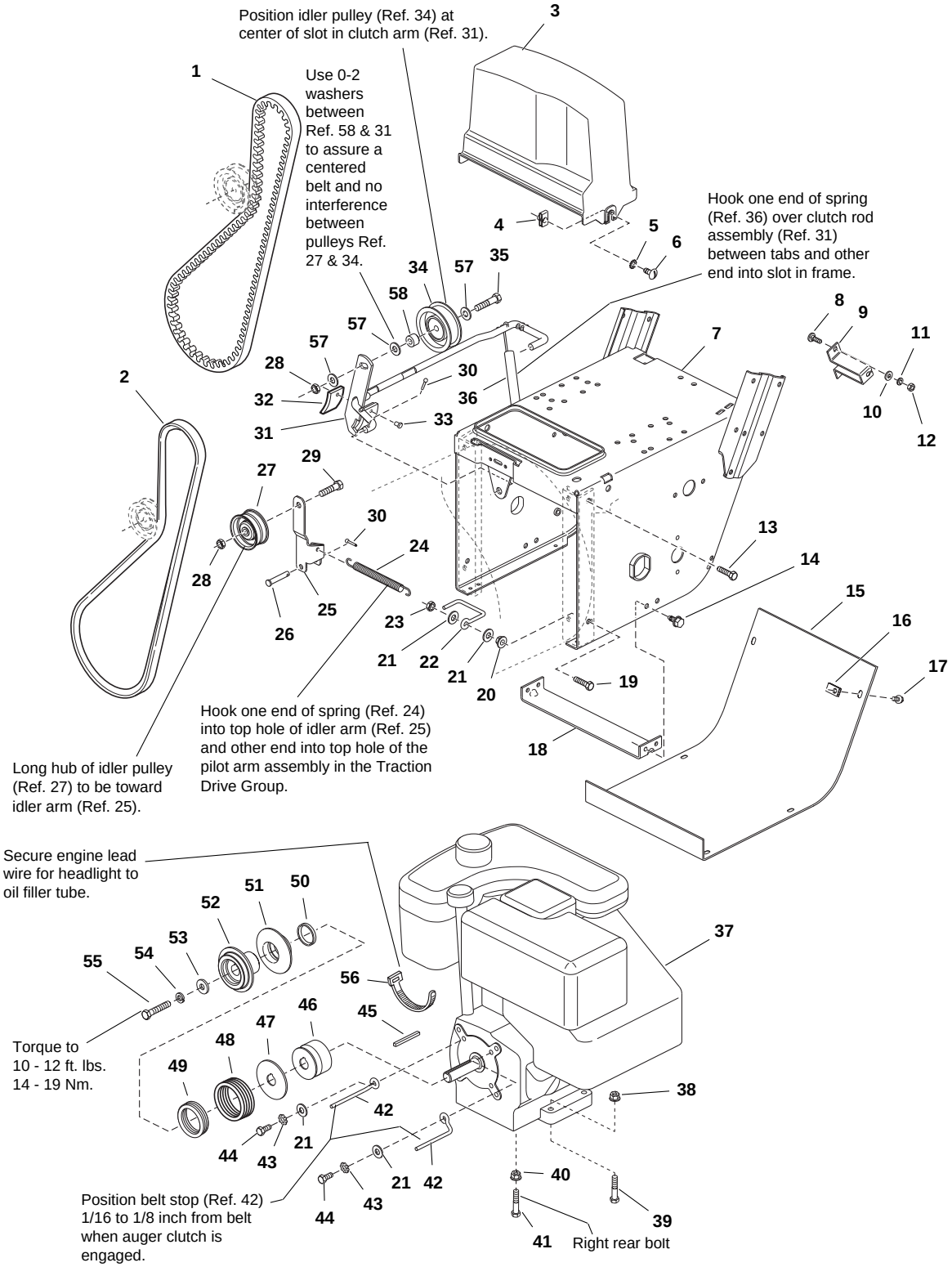
** Not a Service Part.

The above parts group applies to the following Mfg. Nos.:

1693654 970M, 9HP Manual Start
1693655 970M, 9HP Manual Start (Export)

985635

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 34) at center of slot in clutch arm (Ref. 31).
Use 0-2 washers between Ref. 58 & 31 to assure a centered belt and no interference between pulleys Ref. 27 & 34.
Hook one end of spring (Ref. 36) over clutch rod assembly (Ref. 31) between tabs and other end into slot in frame.
Hook one end of spring (Ref. 24) into top hole of idler arm (Ref. 25) and other end into top hole of the pilot arm assembly in the Traction Drive Group.
Long hub of idler pulley (Ref. 27) to be toward idler arm (Ref. 25).
Secure engine lead wire for headlight to oil filler tube.
Torque to 10 - 12 ft. lbs. 14 - 19 Nm.
Position belt stop (Ref. 42) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt

The above parts group applies to the following Mfg. Nos.:

1693654 970M, 9HP Manual Start
1693655 970M, 9HP Manual Start (Export)

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Engine & Frame Group - 9HP, Manual Start

REF NO.	PART NO.	QTY.	DESCRIPTION
49	1702979	1	SPRING, Compression
50	**	1	WICK, Oil
51	1702017	1	PULLEY, Drive
52	1701776	1	PULLEY, Drive
53	1922755	1	WASHER,13/32 x 1
54	1916965	1	LOCKWASHER, Spring, 3/8
55	1960345	1	CAPSCREW, Hex Head, 3/8-24 x 2
56	1701011	1	TIE, Self Locking
57	1924940	3	WASHER, Flat,13/32
58	157081	1	SPACER

Footnotes:

* See your local Tecumseh distributor for Parts and Service.

** Not a Service Part.

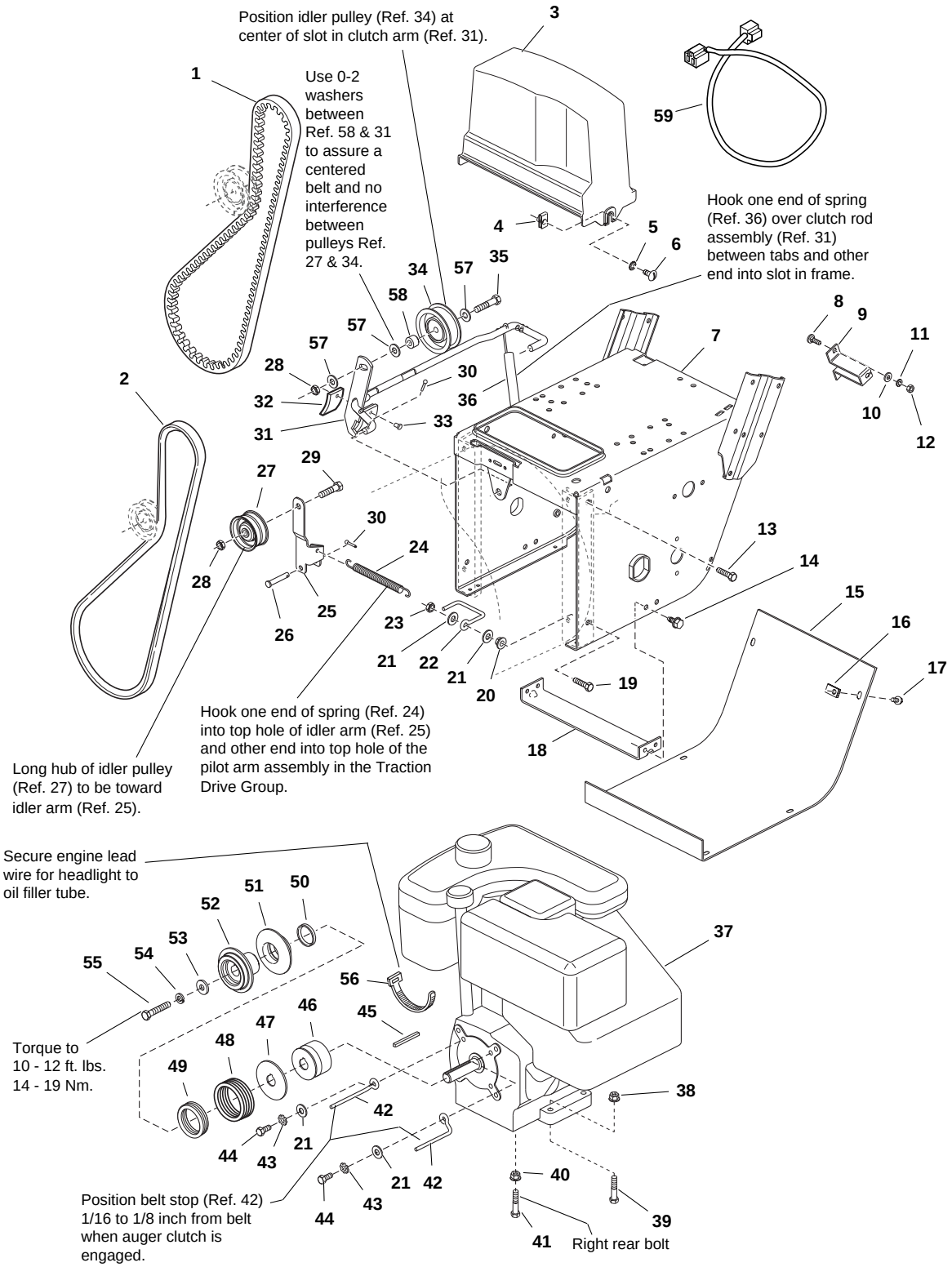
The above parts group applies to the following Mfg. Nos.:

1693654 970M, 9HP Manual Start
1693655 970M, 9HP Manual Start (Export)

Engine & Frame Group - 9HP, Electric Start

986098

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 34) at center of slot in clutch arm (Ref. 31).
Use 0-2 washers between Ref. 58 & 31 to assure a centered belt and no interference between pulleys Ref. 27 & 34.
Hook one end of spring (Ref. 36) over clutch rod assembly (Ref. 31) between tabs and other end into slot in frame.
Long hub of idler pulley (Ref. 27) to be toward idler arm (Ref. 25).
Hook one end of spring (Ref. 24) into top hole of idler arm (Ref. 25) and other end into top hole of the pilot arm assembly in the Traction Drive Group.
Secure engine lead wire for headlight to oil filler tube.
Torque to 10 - 12 ft. lbs. 14 - 19 Nm.
Position belt stop (Ref. 42) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt

The above parts group applies to the following Mfg. Nos.:

1694243 970E, 9HP Electrical Start

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Engine & Frame Group - 9HP, Electric Start

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1672732	1	BELT, Traction
2	1701257	1	BELT, Auger Drive
3	1667516	1	GUARD, Belt
4	1935255	2	NUT, Speed, 5/16-18
5	920426	2	LOCKWASHER, Ext. Tooth, 5/16
6	1918249	2	SCREW, Truss Head, 5/16-18 x 3/4
7	1720235	1	FRAME, Main
8	1931317	2	CARRIAGE BOLT, 1/4-20 x 3/4
9	1720404	1	SUPPORT, Clutch Cable
10	1921319	2	WASHER, 1/4
11	1916964	2	LOCKWASHER, Spring, 1/4
12	1916622	2	NUT, Hex 1/4-20
13	1930591	2	CAPSCREW, Whizlock, 5/16-18 x 3/4
14	1664847	4	CAPSCREW, Taptite, 5/16-18 x 3/8
15	1666374	1	COVER, Bottom
16	1926018	6	NUT, Speed, 1/4-20
17	1925003	6	CAPSCREW, Taptite,1/4-20 x 1/2
18	1669198	1	SUPPORT, Tie Bar
19	1930595	2	CAPSCREW, Whizlock, 5/16-18 x 1-1/4
20	1927557	4	NUT, Hex, Whizlock, 5/16-18
21	1919326	6	WASHER,11/32 x 3/4
22	1702969	2	GUIDE, Belt
23	1923362	2	NUT, Hex, Centerlock, 5/16-18
24	1672735	1	SPRING, Idler
25	1703046	1	ARM, Idler, Traction
26	1665994	1	PIN
27	1668477	1	PULLEY, Idler
28	1928731	2	LOCKNUT, Jam, 3/8-16
29	1960647	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
30	1918451	2	PIN,Cotter,1/8 x 3/4
31	1612200	1	CLUTCH ROD & BRAKE ASSEMBLY
32	1669313	1	PAD, Brake
33	925160	2	RIVET, Pop
34	154534	1	PULLEY
35	1921971	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
36	1701595	1	SPRING, Extension
37	*	1	ENGINE, Tecumseh, 9 H.P. Electric Start - Engine Model # OSHK90, Engine Type # 221408A
38	1931277	3	NUT, Hex, 5/16-18, Black
39	1922127	3	CAPSCREW, Hex Head, 5/16-18 x 2, Black
40	1931277	1	NUT, Hex Flange, 5/16-18
41	1921978	1	CAPSCREW, Hex Head, 5/16-18 x 2
42	1702970	2	GUIDE, Belt
43	1917356	2	LOCKWASHER, 5/16
44	1921515	2	CAPSCREW, Hex Head, 5/16-24 x 3/4
45	1672129	1	KEY, Parallel, 3/16 x 13/16 x 7/8
46	1701783	1	PULLEY, Traction
47	1701818	1	WASHER, Thrust
48	1702425	1	SPRING, Compression

Footnotes:

* See your local Tecumseh distributor for Parts and Service.

** Not a Service Part.

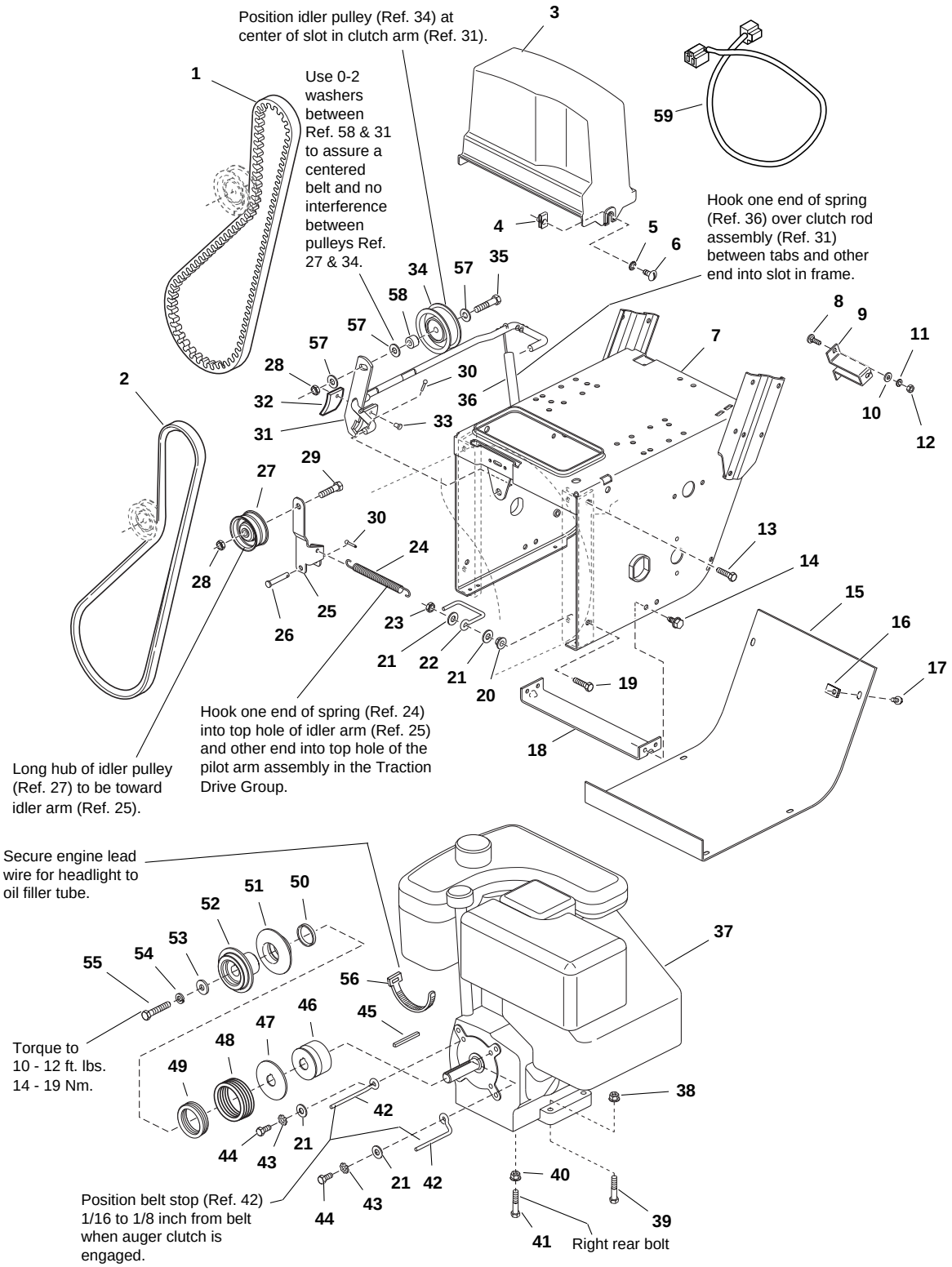
The above parts group applies to the following Mfg. Nos.:

1694243 970E, 9HP Electrical Start

Engine & Frame Group - 9HP, Electric Start

986098

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 34) at center of slot in clutch arm (Ref. 31).
Use 0-2 washers between Ref. 58 & 31 to assure a centered belt and no interference between pulleys Ref. 27 & 34.
Hook one end of spring (Ref. 36) over clutch rod assembly (Ref. 31) between tabs and other end into slot in frame.
Long hub of idler pulley (Ref. 27) to be toward idler arm (Ref. 25).
Hook one end of spring (Ref. 24) into top hole of idler arm (Ref. 25) and other end into top hole of the pilot arm assembly in the Traction Drive Group.
Secure engine lead wire for headlight to oil filler tube.
Torque to 10 - 12 ft. lbs. 14 - 19 Nm.
Position belt stop (Ref. 42) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt

The above parts group applies to the following Mfg. Nos.:

1694243 970E, 9HP Electrical Start

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Engine & Frame Group - 9HP, Electric Start

REF NO.	PART NO.	QTY.	DESCRIPTION
49	1702979	1	SPRING, Compression
50	**	1	WICK, Oil
51	1702017	1	PULLEY, Drive
52	1701776	1	PULLEY, Drive
53	1922755	1	WASHER,13/32 x 1
54	1916965	1	LOCKWASHER, Spring, 3/8
55	1960345	1	CAPSCREW, Hex Head, 3/8-24 x 2
56	1701011	1	TIE, Self Locking
57	1924940	3	WASHER, Flat,13/32
58	157081	1	SPACER
59	1717432	1	CORD, Electric, 3 Prong

Footnotes:

* See your local Tecumseh distributor for Parts and Service.

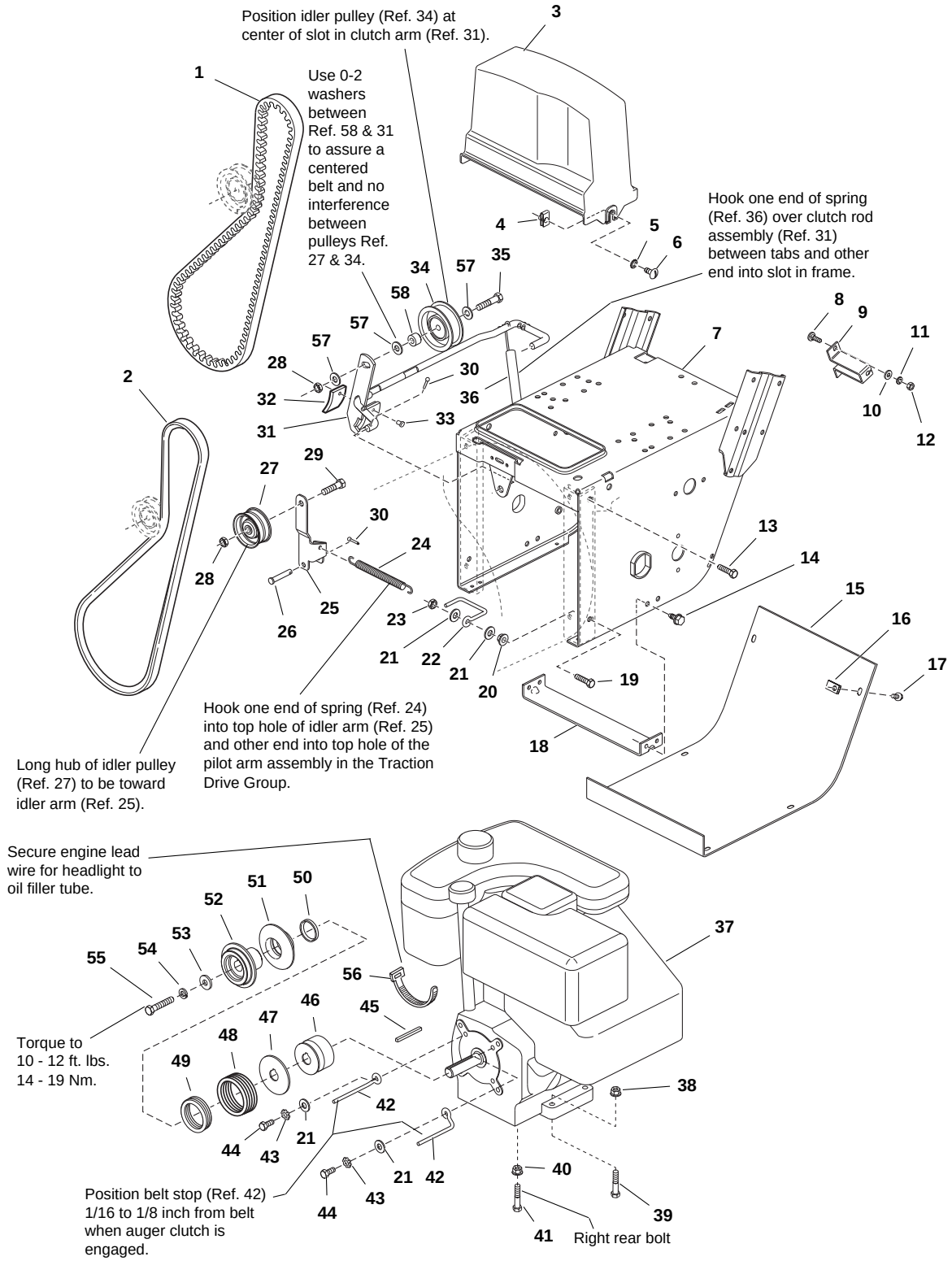
** Not a Service Part.

The above parts group applies to the following Mfg. Nos.:

1694243 970E, 9HP Electrical Start

985636

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 34) at center of slot in clutch arm (Ref. 31).
Use 0-2 washers between Ref. 58 & 31 to assure a centered belt and no interference between pulleys Ref. 27 & 34.
Hook one end of spring (Ref. 36) over clutch rod assembly (Ref. 31) between tabs and other end into slot in frame.
Long hub of idler pulley (Ref. 27) to be toward idler arm (Ref. 25).
Hook one end of spring (Ref. 24) into top hole of idler arm (Ref. 25) and other end into top hole of the pilot arm assembly in the Traction Drive Group.
Secure engine lead wire for headlight to oil filler tube.
Torque to 10 - 12 ft. lbs. 14 - 19 Nm.
Position belt stop (Ref. 42) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt

The above parts group applies to the following Mfg. Nos.:

1693656 1180M, 11HP Manual Start
1693657 1180M, 11HP Manual Start (Export)

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Engine & Frame Group - 11HP, Manual Start

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1672732	1	BELT, Traction
2	1701257	1	BELT, Auger Drive
3	1667516	1	GUARD, Belt
4	1935255	2	NUT, Speed, 5/16-18
5	920426	2	LOCKWASHER, Ext. Tooth, 5/16
6	1918249	2	SCREW, Truss Head, 5/16-18 x 3/4
7	1720235	1	FRAME, Main
8	1931317	2	CARRIAGE BOLT, 1/4-20 x 3/4
9	1720404	1	SUPPORT, Clutch Cable
10	1921319	2	WASHER, 1/4
11	1916964	2	LOCKWASHER, Spring, 1/4
12	1916622	2	NUT, Hex 1/4-20
13	1930591	2	CAPSCREW, Whizlock, 5/16-18 x 3/4
14	1664847	4	CAPSCREW, Taptite, 5/16-18 x 3/8
15	1666374	1	COVER, Bottom
16	1926018	6	NUT, Speed, 1/4-20
17	1925003	6	CAPSCREW, Taptite,1/4-20 x 1/2
18	1669198	1	SUPPORT, Tie Bar
19	1930595	2	CAPSCREW, Whizlock, 5/16-18 x 1-1/4
20	1927557	4	NUT, Hex, Whizlock, 5/16-18
21	1919326	6	WASHER,11/32 x 3/4
22	1702969	2	GUIDE, Belt
23	1923362	2	NUT, Hex, Centerlock, 5/16-18
24	1672735	1	SPRING, Idler
25	1703046	1	ARM, Idler, Traction
26	1665994	1	PIN
27	1668477	1	PULLEY, Idler
28	1928731	2	LOCKNUT, Jam, 3/8-16
29	1960647	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
30	1918451	2	PIN,Cotter,1/8 x 3/4
31	1612200	1	CLUTCH ROD & BRAKE ASSEMBLY
32	1669313	1	PAD, Brake
33	925160	2	RIVET, Pop
34	154534	1	PULLEY
35	1921971	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
36	1701595	1	SPRING, Extension
37	*	1	ENGINE, Tecumseh, 11 H.P. Electric Start - Engine Model # OSHK110, Engine Type # 221710A
38	1931277	3	NUT, Hex, 5/16-18, Black
39	1922127	3	CAPSCREW, Hex Head, 5/16-18 x 2, Black
40	1931277	1	NUT, Hex Flange, 5/16-18
41	1921978	1	CAPSCREW, Hex Head, 5/16-18 x 2
42	1702970	2	GUIDE, Belt
43	1917356	2	LOCKWASHER, 5/16
44	1921515	2	CAPSCREW, Hex Head, 5/16-24 x 3/4
45	1672129	1	KEY, Parallel, 3/16 x 13/16 x 7/8
46	1701783	1	PULLEY, Traction
47	1701818	1	WASHER, Thrust
48	1702425	1	SPRING, Compression

Footnotes:

* See your local Tecumseh distributor for Parts and Service.

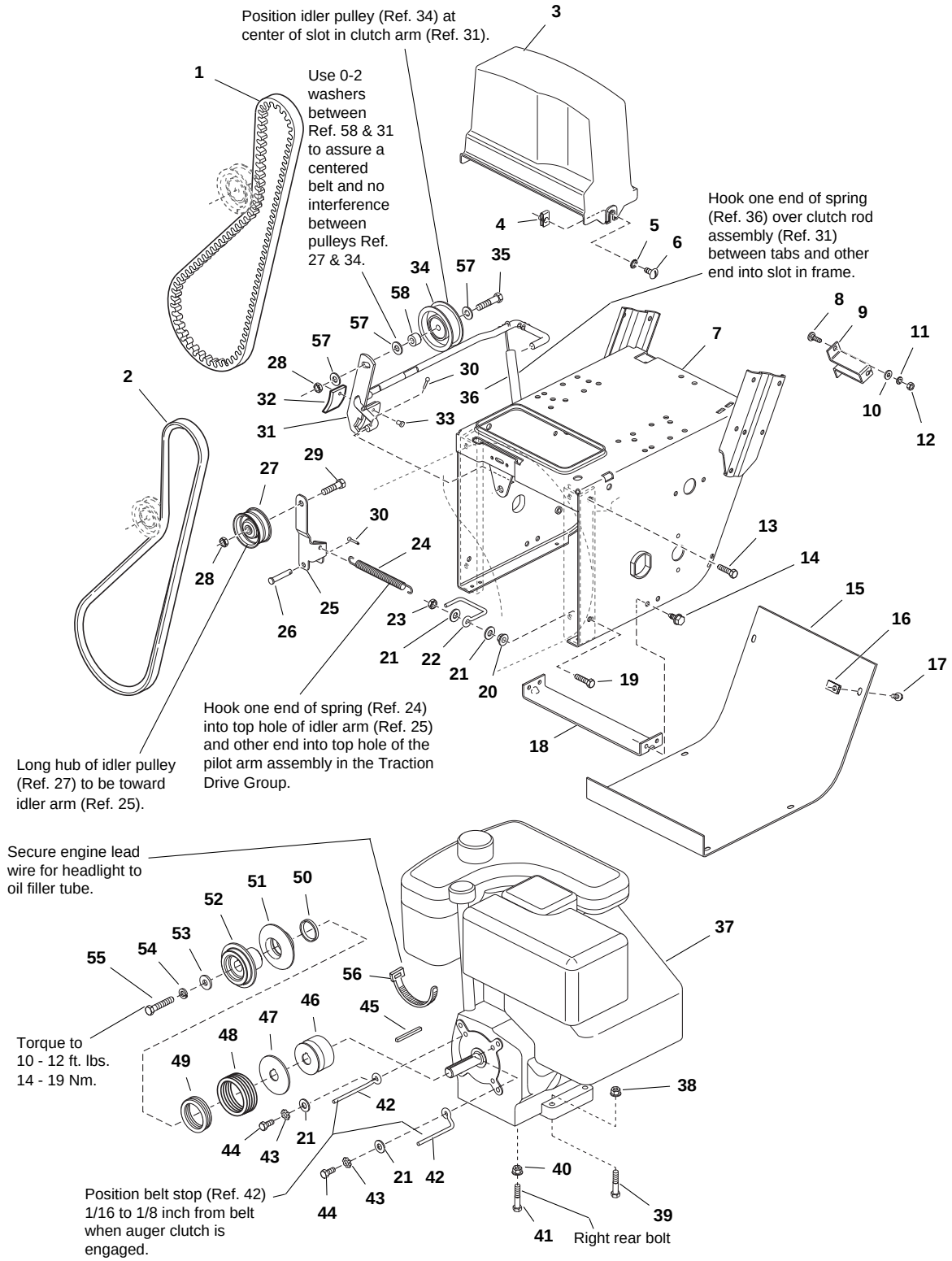
** Not a Service Part.

The above parts group applies to the following Mfg. Nos.:

1693656 1180M, 11HP Manual Start
1693657 1180M, 11HP Manual Start (Export)

985636

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 34) at center of slot in clutch arm (Ref. 31).
Use 0-2 washers between Ref. 58 & 31 to assure a centered belt and no interference between pulleys Ref. 27 & 34.
Hook one end of spring (Ref. 36) over clutch rod assembly (Ref. 31) between tabs and other end into slot in frame.
Long hub of idler pulley (Ref. 27) to be toward idler arm (Ref. 25).
Hook one end of spring (Ref. 24) into top hole of idler arm (Ref. 25) and other end into top hole of the pilot arm assembly in the Traction Drive Group.
Secure engine lead wire for headlight to oil filler tube.
Torque to 10 - 12 ft. lbs. 14 - 19 Nm.
Position belt stop (Ref. 42) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt

The above parts group applies to the following Mfg. Nos.:

1693656 1180M, 11HP Manual Start
1693657 1180M, 11HP Manual Start (Export)

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Engine & Frame Group - 11HP, Manual Start

REF NO.	PART NO.	QTY.	DESCRIPTION
49	1701849	1	SPRING, Compression
50	**	1	WICK, Oil
51	1702017	1	PULLEY, Drive
52	1701776	1	PULLEY, Drive
53	1922755	1	WASHER,13/32 x 1
54	1916965	1	LOCKWASHER, Spring, 3/8
55	1960345	1	CAPSCREW, Hex Head, 3/8-24 x 2
56	1701011	1	TIE, Self Locking
57	1924940	3	WASHER, Flat,13/32
58	157081	1	SPACER

Footnotes:

* See your local Tecumseh distributor for Parts and Service.

** Not a Service Part.

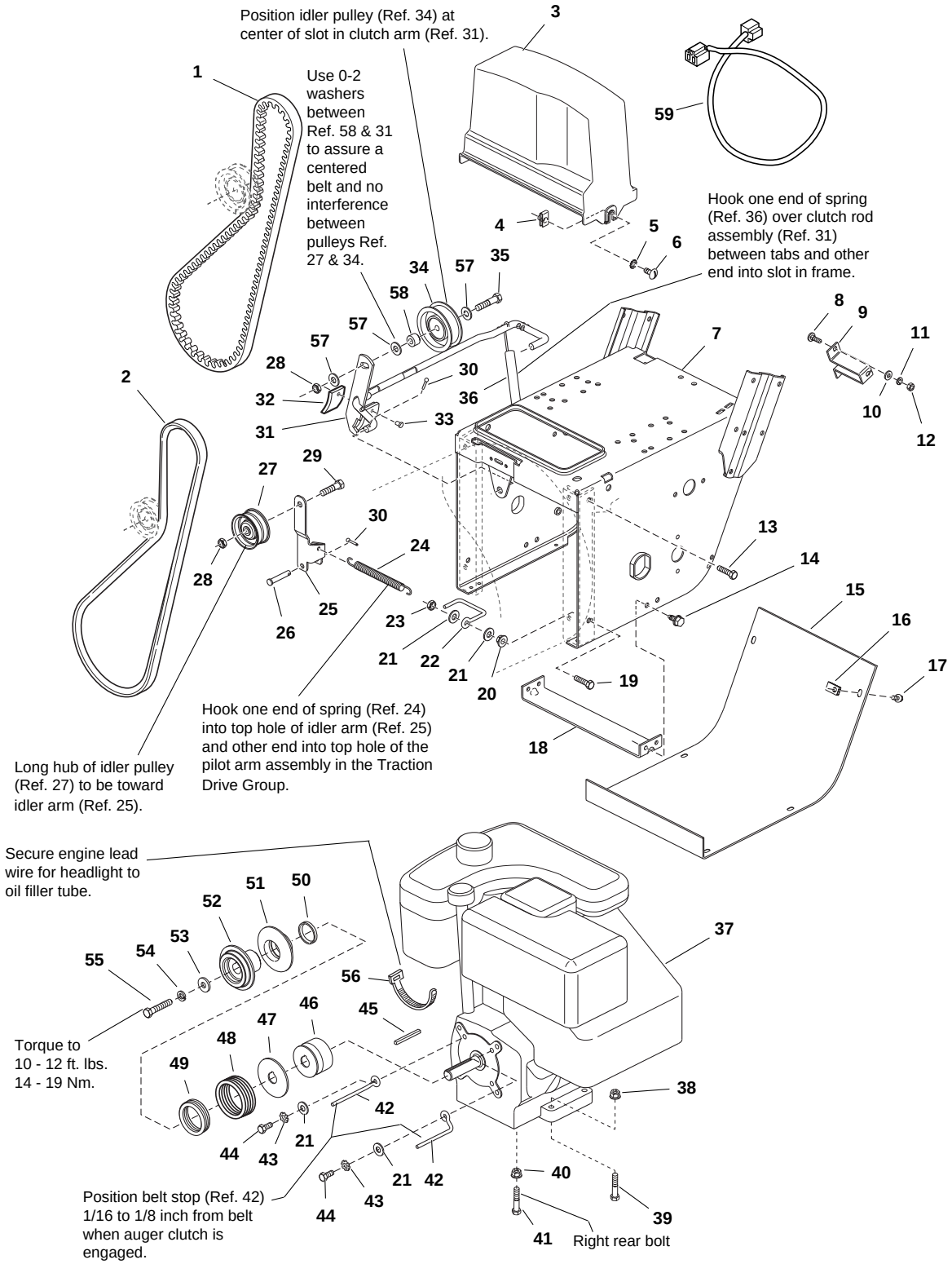
The above parts group applies to the following Mfg. Nos.:

1693656 1180M, 11HP Manual Start
1693657 1180M, 11HP Manual Start (Export)

Engine & Frame Group - 11HP, Electric Start

986099

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 34) at center of slot in clutch arm (Ref. 31).
Use 0-2 washers between Ref. 58 & 31 to assure a centered belt and no interference between pulleys Ref. 27 & 34.
Hook one end of spring (Ref. 36) over clutch rod assembly (Ref. 31) between tabs and other end into slot in frame.
Hook one end of spring (Ref. 24) into top hole of idler arm (Ref. 25) and other end into top hole of the pilot arm assembly in the Traction Drive Group.
Long hub of idler pulley (Ref. 27) to be toward idler arm (Ref. 25).
Secure engine lead wire for headlight to oil filler tube.
Torque to 10 - 12 ft. lbs. 14 - 19 Nm.
Position belt stop (Ref. 42) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt

The above parts group applies to the following Mfg. Nos.:

1694244 1180E, 11HP Electrical Start

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Engine & Frame Group - 11HP, Electric Start

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1672732	1	BELT, Traction
2	1701257	1	BELT, Auger Drive
3	1667516	1	GUARD, Belt
4	1935255	2	NUT, Speed, 5/16-18
5	920426	2	LOCKWASHER, Ext. Tooth, 5/16
6	1918249	2	SCREW, Truss Head, 5/16-18 x 3/4
7	1720235	1	FRAME, Main
8	1931317	2	CARRIAGE BOLT, 1/4-20 x 3/4
9	1720404	1	SUPPORT, Clutch Cable
10	1921319	2	WASHER, 1/4
11	1916964	2	LOCKWASHER, Spring, 1/4
12	1916622	2	NUT, Hex 1/4-20
13	1930591	2	CAPSCREW, Whizlock, 5/16-18 x 3/4
14	1664847	4	CAPSCREW, Taptite, 5/16-18 x 3/8
15	1666374	1	COVER, Bottom
16	1926018	6	NUT, Speed, 1/4-20
17	1925003	6	CAPSCREW, Taptite,1/4-20 x 1/2
18	1669198	1	SUPPORT, Tie Bar
19	1930595	2	CAPSCREW, Whizlock, 5/16-18 x 1-1/4
20	1927557	4	NUT, Hex, Whizlock, 5/16-18
21	1919326	6	WASHER,11/32 x 3/4
22	1702969	2	GUIDE, Belt
23	1923362	2	NUT, Hex, Centerlock, 5/16-18
24	1672735	1	SPRING, Idler
25	1703046	1	ARM, Idler, Traction
26	1665994	1	PIN
27	1668477	1	PULLEY, Idler
28	1928731	2	LOCKNUT, Jam, 3/8-16
29	1960647	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
30	1918451	2	PIN,Cotter,1/8 x 3/4
31	1612200	1	CLUTCH ROD & BRAKE ASSEMBLY
32	1669313	1	PAD, Brake
33	925160	2	RIVET, Pop
34	154534	1	PULLEY
35	1921971	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
36	1701595	1	SPRING, Extension
37	*	1	ENGINE, Tecumseh, 11 H.P. Electric Start - Engine Model # OSHK110, Engine Type # 221710A
38	1931277	3	NUT, Hex, 5/16-18, Black
39	1922127	3	CAPSCREW, Hex Head, 5/16-18 x 2, Black
40	1931277	1	NUT, Hex Flange, 5/16-18
41	1921978	1	CAPSCREW, Hex Head, 5/16-18 x 2
42	1702970	2	GUIDE, Belt
43	1917356	2	LOCKWASHER, 5/16
44	1921515	2	CAPSCREW, Hex Head, 5/16-24 x 3/4
45	1672129	1	KEY, Parallel, 3/16 x 13/16 x 7/8
46	1701783	1	PULLEY, Traction
47	1701818	1	WASHER, Thrust
48	1702425	1	SPRING, Compression

Footnotes:

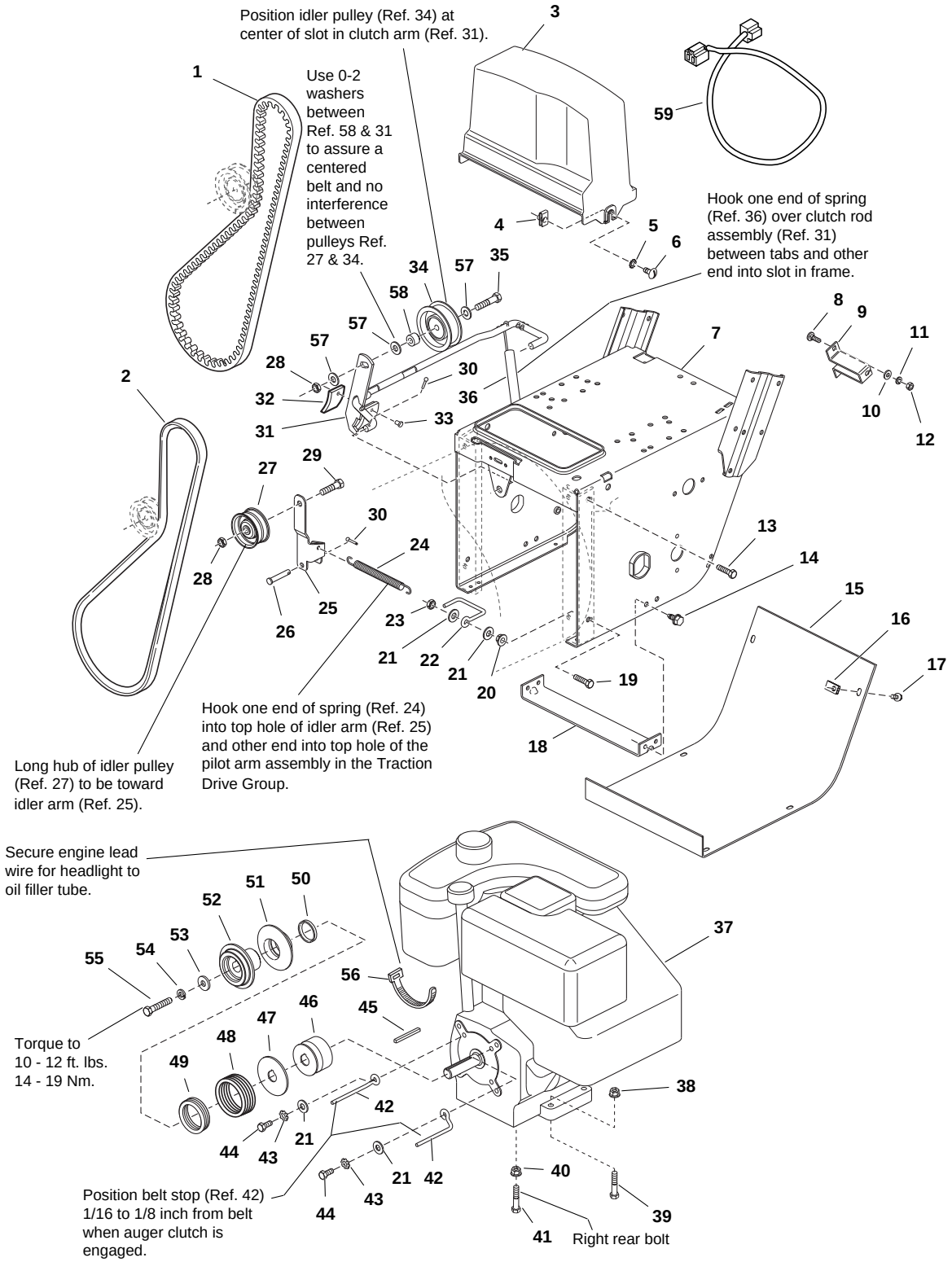
* See your local Tecumseh distributor for Parts and Service.

** Not a Service Part.

The above parts group applies to the following Mfg. Nos.:

1694244 1180E, 11HP Electrical Start

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Position idler pulley (Ref. 34) at center of slot in clutch arm (Ref. 31).
Use 0-2 washers between Ref. 58 & 31 to assure a centered belt and no interference between pulleys Ref. 27 & 34.
Hook one end of spring (Ref. 36) over clutch rod assembly (Ref. 31) between tabs and other end into slot in frame.
Hook one end of spring (Ref. 24) into top hole of idler arm (Ref. 25) and other end into top hole of the pilot arm assembly in the Traction Drive Group.
Long hub of idler pulley (Ref. 27) to be toward idler arm (Ref. 25).
Secure engine lead wire for headlight to oil filler tube.
Torque to 10 - 12 ft. lbs. 14 - 19 Nm.
Position belt stop (Ref. 42) 1/16 to 1/8 inch from belt when auger clutch is engaged.
Right rear bolt

The above parts group applies to the following Mfg. Nos.:

1694244 1180E, 11HP Electrical Start

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Engine & Frame Group - 11HP, Electric Start

REF NO.	PART NO.	QTY.	DESCRIPTION
49	1701849	1	SPRING, Compression
50	**	1	WICK, Oil
51	1702017	1	PULLEY, Drive
52	1701776	1	PULLEY, Drive
53	1922755	1	WASHER,13/32 x 1
54	1916965	1	LOCKWASHER, Spring, 3/8
55	1960345	1	CAPSCREW, Hex Head, 3/8-24 x 2
56	1701011	1	TIE, Self Locking
57	1924940	3	WASHER, Flat,13/32
58	157081	1	SPACER
59	1717432	1	CORD, Electric, 3 Prong

Footnotes:

* See your local Tecumseh distributor for Parts and Service.

** Not a Service Part.

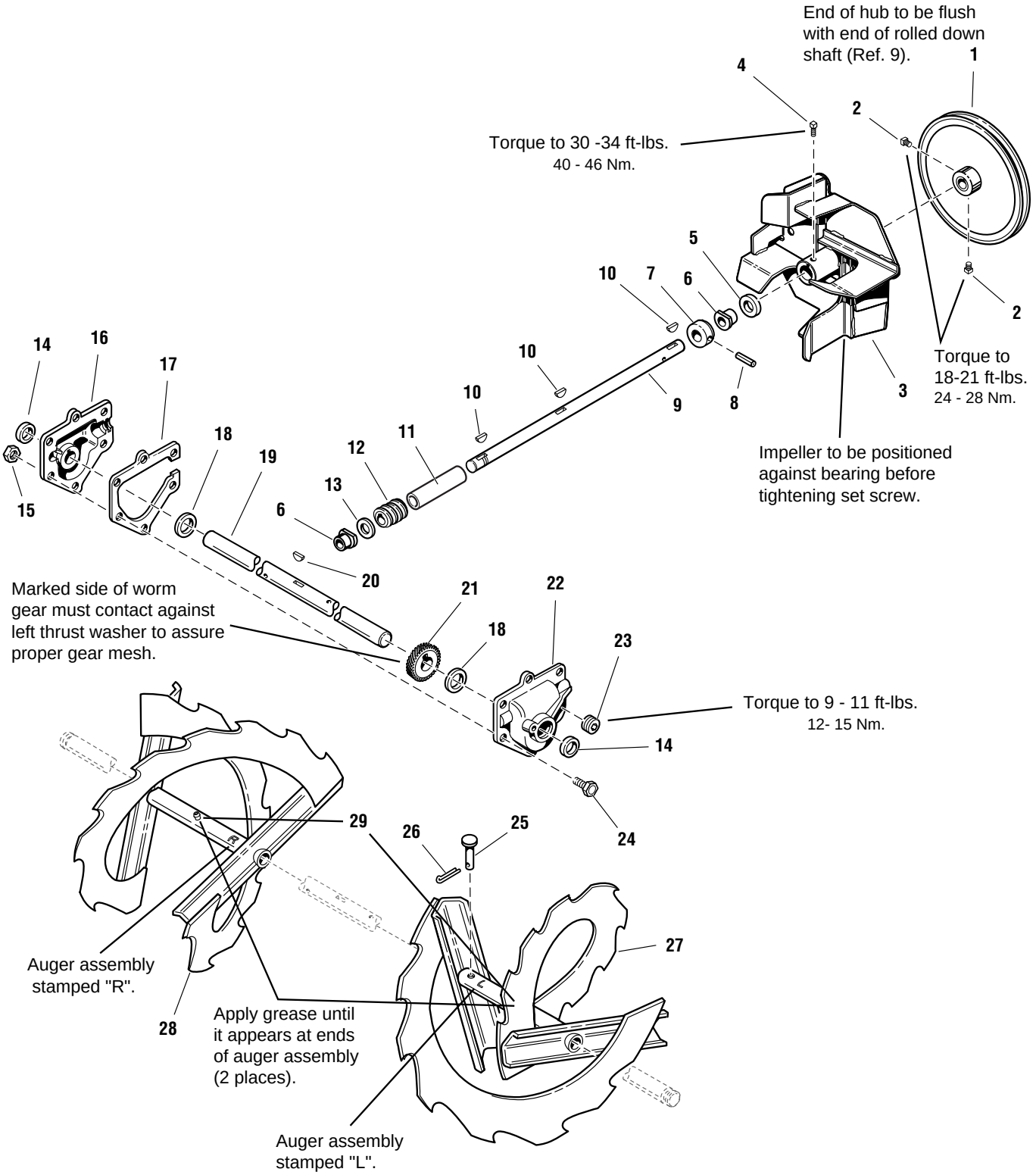
The above parts group applies to the following Mfg. Nos.:

1694244 1180E, 11HP Electrical Start

Auger and Impeller Group - 24”

985466

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


End of hub to be flush with end of rolled down shaft (Ref. 9).
Torque to 30 -34 ft-lbs.
40 - 46 Nm.
Torque to 18-21 ft-lbs.
24 - 28 Nm.
Impeller to be positioned against bearing before tightening set screw.
Marked side of worm gear must contact against left thrust washer to assure proper gear mesh.
Torque to 9 - 11 ft-lbs.
12- 15 Nm.
Auger assembly stamped "R".
Apply grease until it appears at ends of auger assembly (2 places).
Auger assembly stamped "L".

The above parts group applies to the following Mfg. Nos.:

1693650	860M, 8HP Manual Start	1693985	860M, 8HP Manual Start (Export)
1693651	860M, 8HP Manual Start (Export)	1694242	860E, 8HP Electric Start
1693763	860M, 8HP Manual Start	1693652	860DLX, 8HP Manual Start
1693775	860M, 8HP Manual Start (Export)	1693653	860DLX, 8HP Manual Start (Export)
1693984	860M, 8HP Manual Start	1694241	860DLXE, 8HP Electric Start

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Auger and Impeller Group - 24”

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1679293	1	PULLEY, Auger Input
2	1928721	2	SETSCREW, Square Head, 5/16-18 x 1/2
3	1612187	1	IMPELLER ASSEMBLY
4	1960474	1	SETSCREW, Square Head, 3/8-16x 1/2
5	1612093	1	SEAL, Oil
6	1612149	2	BUSHING, Flange
7	1612127	1	COLLAR, Thrust
8	936098	1	PIN, Drivelok, 3/16 x 1-1/2
9	1612129	1	SHAFT, Worm
10	918312	3	KEY, Woodruff, 3/16 x 5/8
11	1612111	1	TUBE
12	1612142	1	GEAR, Rolled Worm
13	168111	1	WASHER, Thrust
14	118118	2	SEAL
15	1923358	6	LOCKNUT, Hex, 1/4-20
16	1612137	1	CASE, Gear, RH
17	1612124	1	GASKET
18	118315	2	WASHER, Thrust
19	1612117	1	SHAFT, Auger
20	930246	1	KEY, Woodruff, 1/4 x 3/4
21	1612141	1	GEAR, Worm
22	1612136	1	CASE, Gear, LH
23	1668971	1	PLUG, Pipe, Tapered, 1/8
24	1960346	6	CAPSCREW, Hex Head, 1/4-20 x 7/8
25	1668344	2	PIN, Shear
26	1918447	2	PIN, Cotter, 3/32 x 3/4
27	1718782	1	AUGER ASSEMBLY, LH, 24"
28	1718783	1	AUGER ASSEMBLY, RH, 24"
29	921133	2	FITTING, Lube, 1/4

Footnotes:

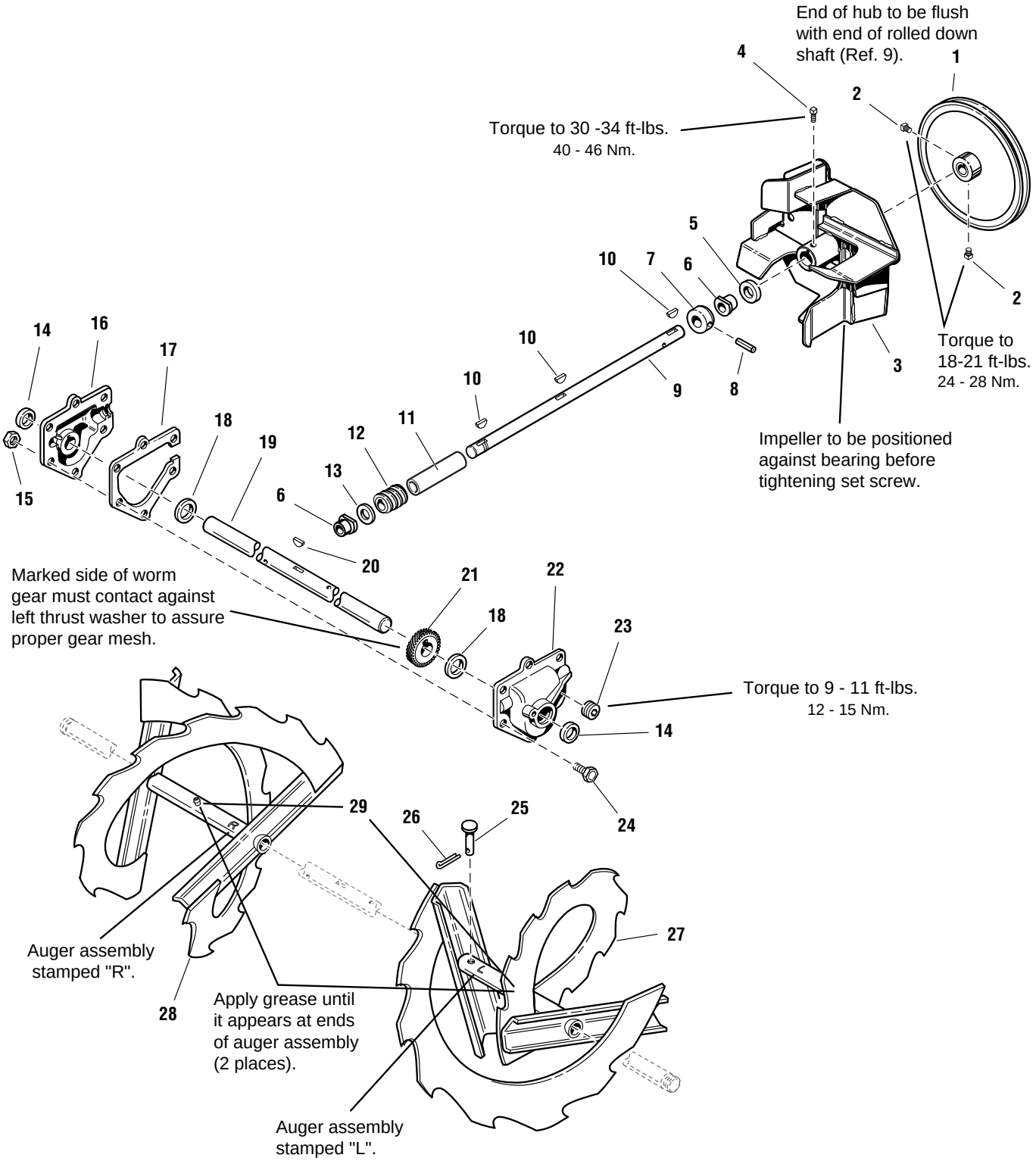
The above parts group applies to the following Mfg. Nos.:

1693650	860M, 8HP Manual Start	1693985	860M, 8HP Manual Start (Export)
1693651	860M, 8HP Manual Start (Export)	1694242	860E, 8HP Electric Start
1693763	860M, 8HP Manual Start	1693652	860DLX, 8HP Manual Start
1693775	860M, 8HP Manual Start (Export)	1693653	860DLX, 8HP Manual Start (Export)
1693984	860M, 8HP Manual Start	1694241	860DLXE, 8HP Electric Start

Auger and Impeller Group - 28”

985467

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


End of hub to be flush with end of rolled down shaft (Ref. 9).
Torque to 30 -34 ft-lbs.
40 - 46 Nm.
Torque to 18-21 ft-lbs.
24 - 28 Nm.
Impeller to be positioned against bearing before tightening set screw.
Marked side of worm gear must contact against left thrust washer to assure proper gear mesh.
Torque to 9 - 11 ft-lbs.
12 - 15 Nm.
Auger assembly stamped "R".
Apply grease until it appears at ends of auger assembly (2 places).
Auger assembly stamped "L".

The above parts group applies to the following Mfg. Nos.:

1693654 970M, 9HP Manual Start
1693655 970M, 9HP Manual Start (Export)
1694243 970E, 9HP Electrical Start

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Auger and Impeller Group - 28”

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1679293	1	PULLEY, Auger Input
2	1928721	2	SETSCREW, Square Head, 5/16-18 x 1/2
3	1612187	1	IMPELLER ASSEMBLY
4	1960474	1	SETSCREW, Square Head, 3/8-16x 1/2
5	1612093	1	SEAL, Oil
6	1612149	2	BUSHING, Flange
7	1612127	1	COLLAR, Thrust
8	936098	1	PIN, Drivelok, 3/16 x 1-1/2
9	1612129	1	SHAFT, Worm
10	918312	3	KEY, Woodruff, 3/16 x 5/8
11	1612111	1	TUBE
12	1612142	1	GEAR, Rolled Worm
13	168111	1	WASHER, Thrust
14	118118	2	SEAL
15	1923358	6	LOCKNUT, Hex, 1/4-20
16	1612137	1	CASE, Gear, RH
17	1612124	1	GASKET
18	118315	2	WASHER, Thrust
19	1612117	1	SHAFT, Auger
20	930246	1	KEY, Woodruff, 1/4 x 3/4
21	1612141	1	GEAR, Worm
22	1612136	1	CASE, Gear, LH
23	1668971	1	PLUG, Pipe, Tapered, 1/8
24	1960346	6	CAPSCREW, Hex Head, 1/4-20 x 7/8
25	1668344	2	PIN, Shear
26	1918447	2	PIN, Cotter, 3/32 x 3/4
27	1718784	1	AUGER ASSEMBLY, LH, 28"
28	1718785	1	AUGER ASSEMBLY, RH, 28"
29	921133	2	FITTING, Lube, 1/4

Footnotes:

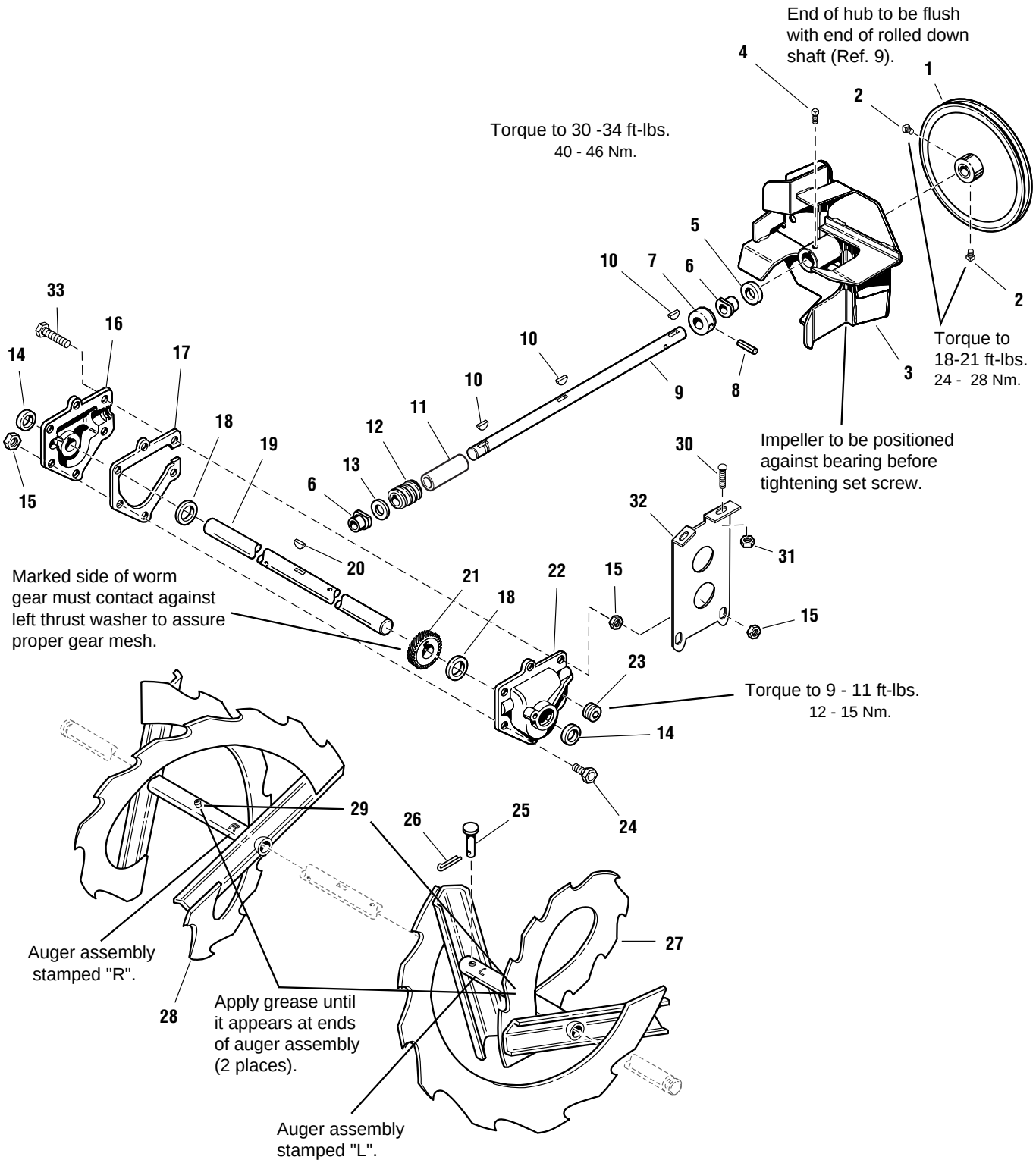
The above parts group applies to the following Mfg. Nos.:

1693654 970M, 9HP Manual Start
1693655 970M, 9HP Manual Start (Export)
1694243 970E, 9HP Electrical Start

Auger and Impeller Group - 32”

985468

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

1693656 1180M, 11HP Manual Start
1693657 1180M, 11HP Manual Start (Export)
1694244 1180E, 11HP Electrical Start

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Auger and Impeller Group - 32”

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1679293	1	PULLEY, Auger Input
2	1928721	2	SETSCREW, Square Head, 5/16-18 x 1/2
3	1612187	1	IMPELLER ASSEMBLY
4	1960474	1	SETSCREW, Square Head, 3/8-16x 1/2
5	1612093	1	SEAL, Oil
6	1612149	2	BUSHING, Flange
7	1612127	1	COLLAR, Thrust
8	936098	1	PIN, Drivelok, 3/16 x 1-1/2
9	1612129	1	SHAFT, Worm
10	918312	3	KEY, Woodruff, 3/16 x 5/8
11	1612111	1	TUBE
12	1612142	1	GEAR, Rolled Worm
13	168111	1	WASHER, Thrust
14	118118	2	SEAL
15	1923358	8	LOCKNUT, Hex, 1/4-20
16	1612137	1	CASE, Gear, RH
17	1612124	1	GASKET
18	118315	2	WASHER, Thrust
19	1612117	1	SHAFT, Auger
20	930246	1	KEY, Woodruff, 1/4 x 3/4
21	1612141	1	GEAR, Worm
22	1612136	1	CASE, Gear, LH
23	1668971	1	PLUG, Pipe, Tapered, 1/8
24	1960346	6	CAPSCREW, Hex Head, 1/4-20 x 7/8
25	1668344	2	PIN, Shear
26	1918447	2	PIN, Cotter, 3/32 x 3/4
27	1718786	1	AUGER ASSEMBLY, LH, 32"
28	1718787	1	AUGER ASSEMBLY, RH, 32"
29	921133	2	FITTING, Lube, 1/4
30	1931333	2	CARRIAGE BOLT, 5/16-18 x 3/4
31	1931277	2	NUT, Hex Flange Whiz Lock, 5/16-18
32	1723922	1	SUPPORT, Gear Box
33	1923282	2	CAPSCREW, Hex Head, 1/4-20 x 2-1/2

Footnotes:

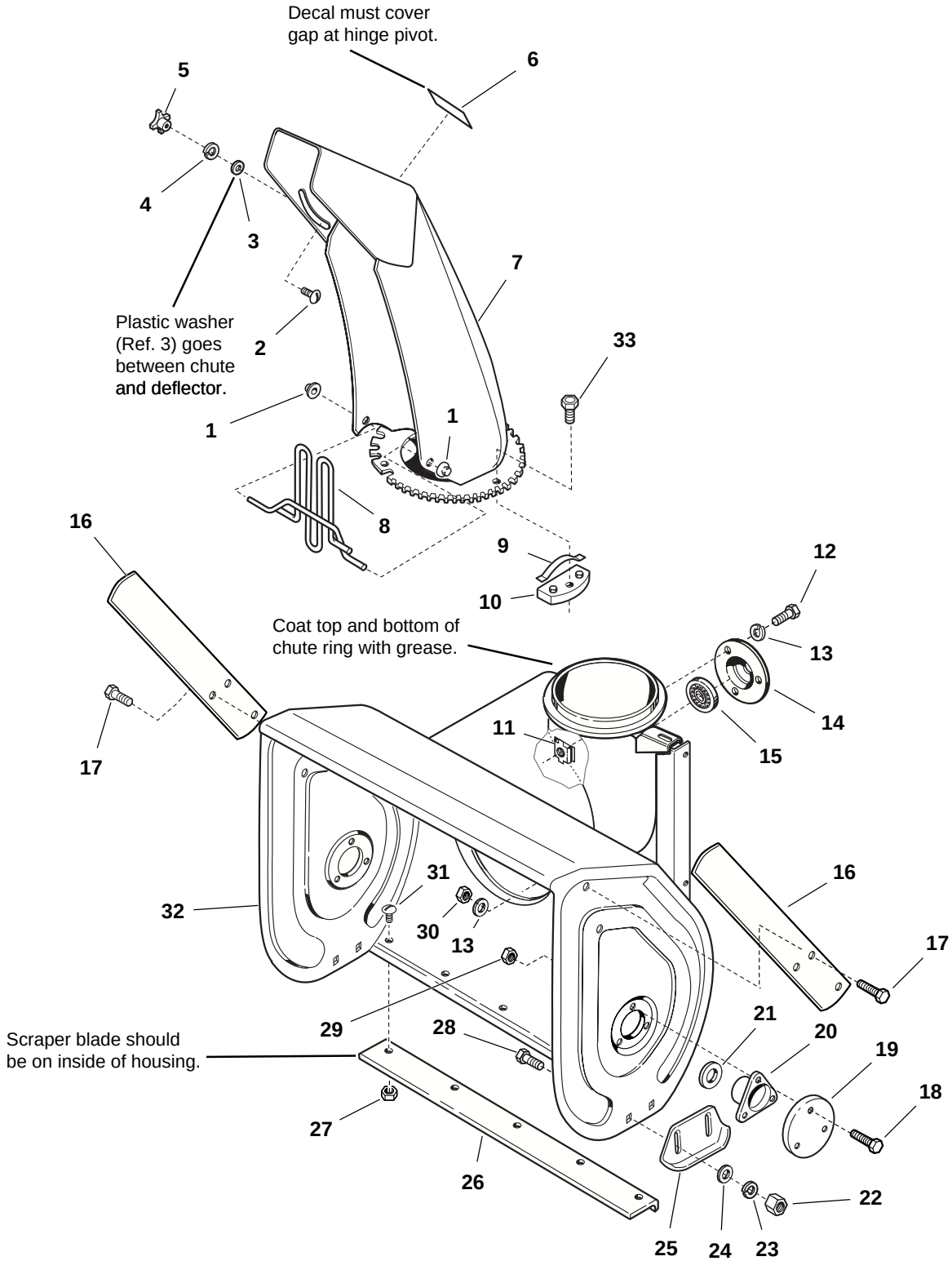
The above parts group applies to the following Mfg. Nos.:

1693656 1180M, 11HP Manual Start
1693657 1180M, 11HP Manual Start (Export)
1694244 1180E, 11HP Electrical Start

Auger Housing and Chute Group - 24”

983960

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Decal must cover gap at hinge pivot.
Plastic washer (Ref. 3) goes between chute and deflector.
Coat top and bottom of chute ring with grease.
Scraper blade should be on inside of housing.

The above parts group applies to the following Mfg. Nos.:

1693650	860M, 8HP Manual Start	1693985	860M, 8HP Manual Start (Export)
1693651	860M, 8HP Manual Start (Export)	1694242	860E, 8HP Electric Start
1693763	860M, 8HP Manual Start	1693652	860DLX, 8HP Manual Start
1693775	860M, 8HP Manual Start (Export)	1693653	860DLX, 8HP Manual Start (Export)
1693984	860M, 8HP Manual Start	1694241	860DLXE, 8HP Electric Start

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Auger Housing and Chute Group - 24”

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1960126	2	PUSH NUT, 1/4
2	1931333	1	CARRIAGE BOLT, 5/16-18 x 3/4
3	960210	1	WASHER, Nylon
4	1919326	1	WASHER, Flat, 11/32
5	1670578	1	KNOB, w/5/16-18 Threaded Insert
6	1706085	2	SEAL, Hinge Decal
7	1704161	1	CHUTE & DEFLECTOR ASSEMBLY
8	1612455	1	GUARD & SUPPORT ASSEMBLY, Chute
9	1667865	3	SPRING
10	1666613	3	HOLD DOWN, Chute, Black Nylon
11	1930659	3	NUT, Retainer, 5/16-18
12	1925205	3	CAPSCREW, Hex Head, 5/16-18 x 17/64
13	1917356	3	LOCKWASHER, 5/16
14	1665982	1	RETAINER, Bearing
15	108202	1	BEARING, Ball
16	1715787	2	CUTTER, Drift, (Optional)
17	1921332	4	CAPSCREW, Hex Head, 5/16-18 x 3/4, (Optional)
18	1923325	6	CAPSCREW, Hex Head, 5/16-18 x 7/8
19	1668639	2	BEARING, Cap.
20	1665980	2	BEARING, Auger, Flange
21	1663189	2	SPACER
22	1916950	4	NUT, Hex, 3/8-16
23	1916965	4	LOCKWASHER, 3/8
24	1924940	5	WASHER, Flat, 13/32
25	177434	2	SKID
26	1709946	1	BLADE, Scraper, 24"
27	1935048	5	NUT, Hex Flange, 2-Way Lock, 5/16-18
28	1931348	4	CARRIAGE BOLT, 3/8-16 x 3/4
29	1923362	6	NUT, Hex, Center Lock, 5/16-18
30	1917372	4	NUT, Hex, 5/16-18, (Optional)
31	1931332	5	CARRIAGE BOLT, 5/16-18 x 5/8
32	1612184	1	HOUSING ASSEMBLY, Auger, 24"
33	1960001	1	CAPSCREW, Hex Head, Plastite, 10-14 x 5/8

Footnotes:

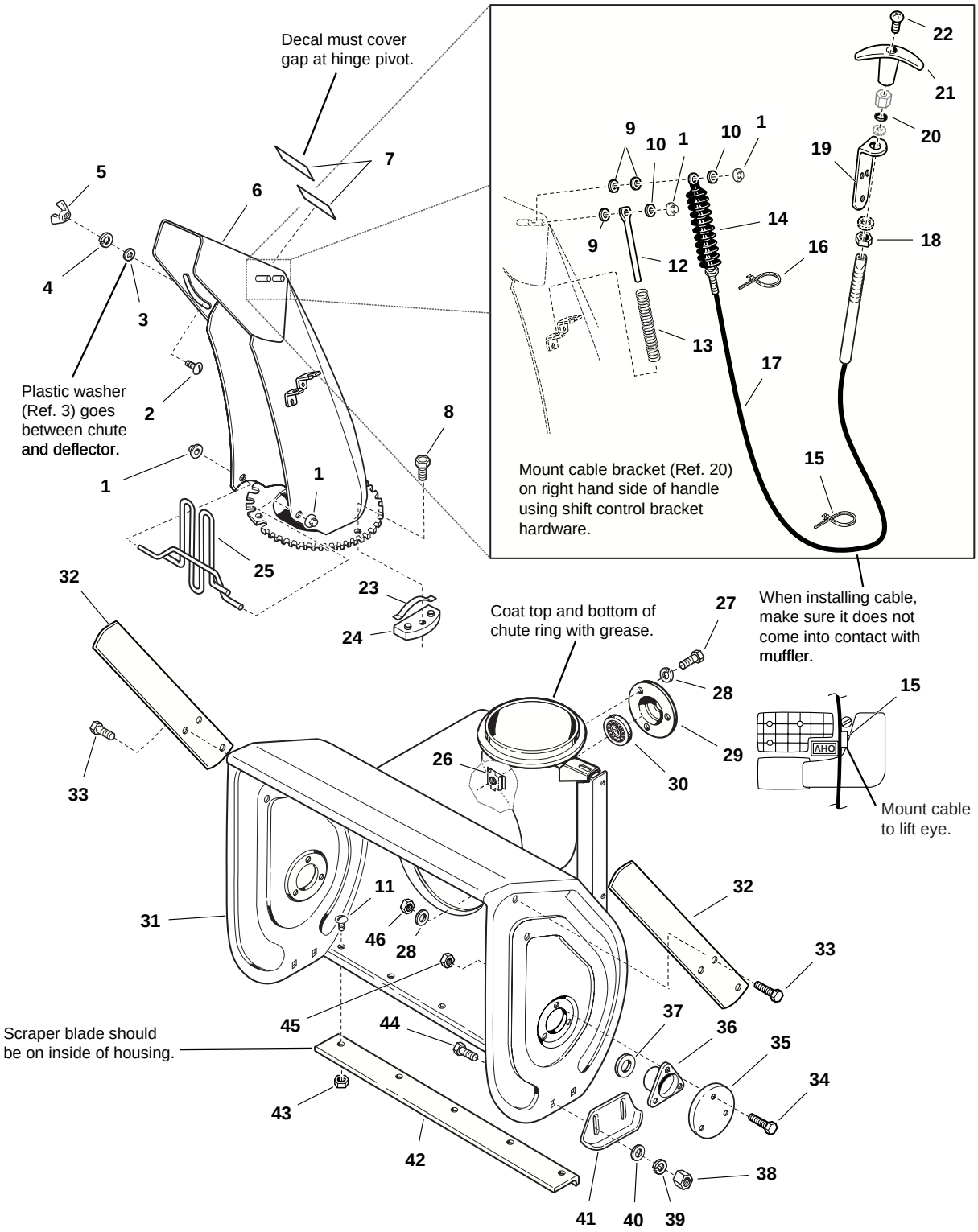
The above parts group applies to the following Mfg. Nos.:

1693650	860M, 8HP Manual Start	1693985	860M, 8HP Manual Start (Export)
1693651	860M, 8HP Manual Start (Export)	1694242	860E, 8HP Electric Start
1693763	860M, 8HP Manual Start	1693652	860DLX, 8HP Manual Start
1693775	860M, 8HP Manual Start (Export)	1693653	860DLX, 8HP Manual Start (Export)
1693984	860M, 8HP Manual Start	1694241	860DLXE, 8HP Electric Start

Auger Housing and Chute Group - 28”

985639

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Decal must cover gap at hinge pivot.
Plastic washer (Ref. 3) goes between chute and deflector.
Mount cable bracket (Ref. 20) on right hand side of handle using shift control bracket hardware.
When installing cable, make sure it does not come into contact with muffler.
Coat top and bottom of chute ring with grease.
Mount cable to lift eye.
Scraper blade should be on inside of housing.

The above parts group applies to the following Mfg. Nos.:

1693654 970M, 9HP Manual Start
1693655 970M, 9HP Manual Start (Export)
1694243 970E, 9HP Electrical Start

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Auger Housing and Chute Group - 28”

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1960126	4	PUSH NUT, 1/4
2	1931333	1	CARRIAGE BOLT, 5/16-18 x 3/4
3	960210	1	WASHER, Nylon
4	1919326	1	WASHER, Flat, 11/32
5	933126	1	WINGNUT, 5/16-18
6	1720671	1	CHUTE & DEFLECTOR ASSEMBLY
7	1706085	2	SEAL, Hinge Decal
8	1960001	3	CAPSCREW, Hex, Washer Head, Plastite 10-14 x 5/8
9	1702219	3	SPACER,
10	1921319	2	WASHER, Flat
11	1931332	5	CARRIAGE BOLT, 5/16-18 x 5/8
12	1611945	1	ROD, Spring
13	1611939	1	SPRING
14	1700048	1	BOOT, Water
15	1701011	2	TIE, Self-Locking
16	923247	2	TIE, Self-Locking
17	1720446	1	CABLE, Assembly, 67" Long (Includes Ref. Nos. 14, 20, 21 & 22)
18	1922014	2	NUT, 5/16-18
19	1705920	1	BRACKET, Cable
20	1719139	1	SEAL, Rod, Chute Deflector Cable
21	1719138	1	HANDLE, Cable
22	1960600	1	SCREW, Pan Head, #8-32 x 11/16
23	1667865	3	SPRING
24	1666613	3	HOLD DOWN, Chute, Black Nylon
25	1612455	1	GUARD & SUPPORT ASSEMBLY, Chute
26	1930659	3	NUT, Retainer, 5/16-18
27	1925205	3	CAPSCREW, Hex Head, 5/16-18 x 17/64
28	1917356	7	LOCKWASHER, 5/16
29	1665982	1	RETAINER, Bearing
30	108202	1	BEARING, Ball
31	1612185	1	HOUSING ASSEMBLY, Auger, 28"
32	1715787	2	CUTTER, Drift
33	1921332	4	CAPSCREW, Hex Head, 5/16-18 x 3/4
34	1923325	6	CAPSCREW, Hex Head, 5/16-18 x 7/8
35	1668639	2	BEARING, Cap
36	1665980	2	BEARING, Auger, Flange
37	1663189	2	SPACER
38	1916950	4	NUT, Hex, 3/8-16
39	1916965	4	LOCKWASHER, 3/8
40	1924940	4	WASHER, Flat, 13/32
41	177434	2	SKID
42	1709947	1	BLADE, Scraper, 28"
43	1935048	5	NUT, Hex Flange, 2-Way Lock, 5/16-18
44	1931348	4	CARRIAGE BOLT, 3/8-16 x 3/4
45	1923362	6	NUT, Hex, Center Lock, 5/16-18
46	1917372	4	NUT, Hex, 5/16-18

Footnotes:

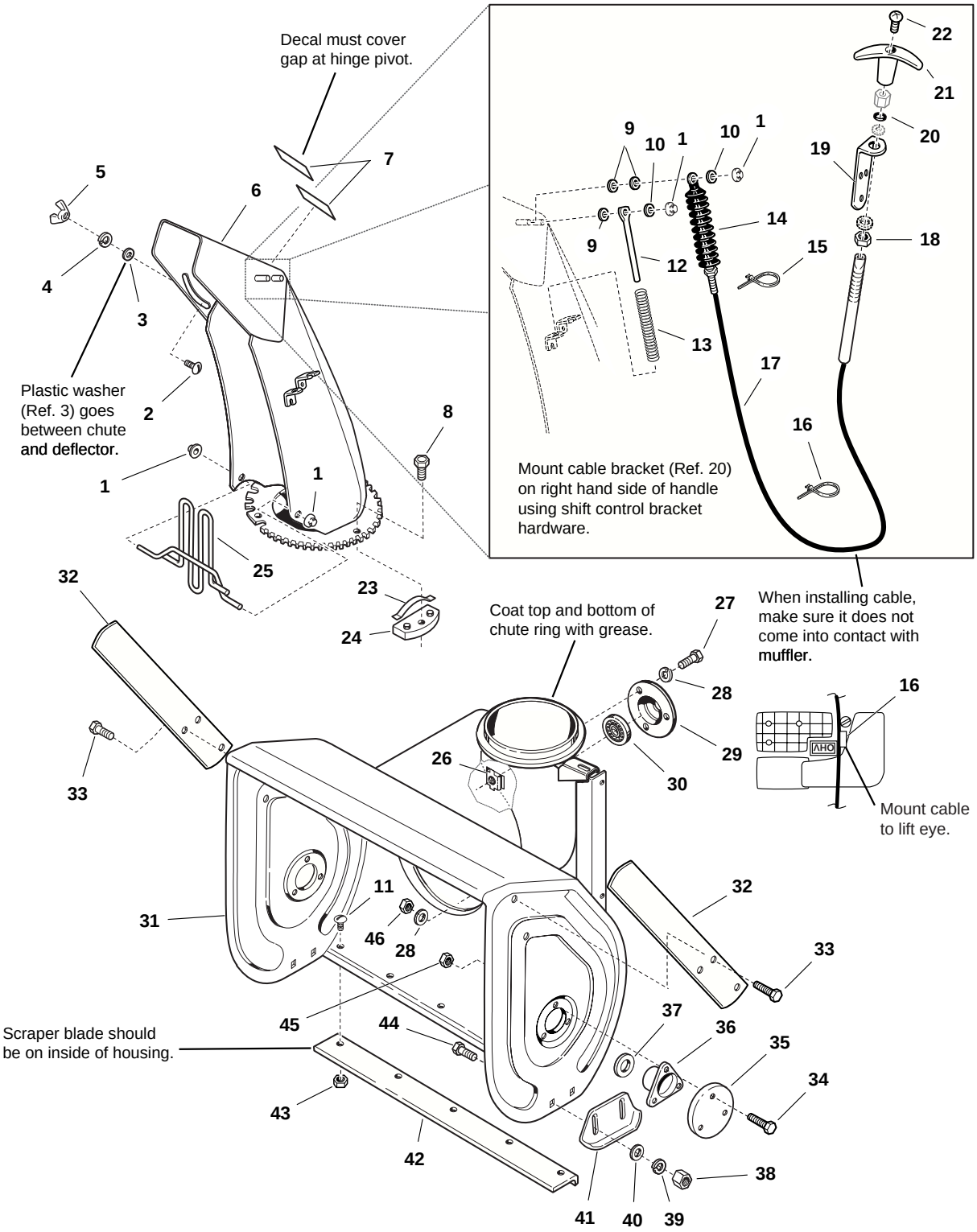
The above parts group applies to the following Mfg. Nos.:

1693654 970M, 9HP Manual Start
1693655 970M, 9HP Manual Start (Export)
1694243 970E, 9HP Electrical Start

Auger Housing and Chute Group - 32”

985640

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Decal must cover gap at hinge pivot.
Plastic washer (Ref. 3) goes between chute and deflector.
Mount cable bracket (Ref. 20) on right hand side of handle using shift control bracket hardware.
When installing cable, make sure it does not come into contact with muffler.
Coat top and bottom of chute ring with grease.
Mount cable to lift eye.
Scraper blade should be on inside of housing.
OHV

The above parts group applies to the following Mfg. Nos.:

1693656 1180M, 11HP Manual Start
1693657 1180M, 11HP Manual Start (Export)
1694244 1180E, 11HP Electrical Start

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Auger Housing and Chute Group - 32”

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1960126	4	PUSH NUT, 1/4
2	1931333	1	CARRIAGE BOLT, 5/16-18 x 3/4
3	960210	1	WASHER, Nylon
4	1919326	1	WASHER, Flat, 11/32
5	933126	1	WINGNUT, 5/16-18
6	1720671	1	CHUTE & DEFLECTOR ASSEMBLY
7	1706085	2	SEAL, Hinge Decal
8	1960001	3	CAPSCREW, Hex, Washer Head, Plastite 10-14 x 5/8
9	1702219	3	SPACER,
10	1921319	2	WASHER, Flat
11	1931332	5	CARRIAGE BOLT, 5/16-18 x 5/8
12	1611945	1	ROD, Spring
13	1611939	1	SPRING
14	1700048	1	BOOT, Water
15	932747	2	TIE, Self-Locking, Cable Assembly
16	1701011	2	TIE, Self-Locking
17	1720446	1	CABLE, Assembly, 67" Long (Includes Ref. Nos. 14, 20, 21 & 22)
18	1922014	2	NUT, 5/16-18
19	1705920	1	BRACKET, Cable
20	1719139	1	SEAL, Rod, Chute Deflector Cable
21	1719138	1	HANDLE, Cable
22	1960600	1	SCREW, Pan Head, #8-32 x 11/16
23	1667865	3	SPRING
24	1666613	3	HOLD DOWN, Chute, Black Nylon
25	1612455	1	GUARD & SUPPORT ASSEMBLY, Chute
26	1930659	3	NUT, Retainer, 5/16-18
27	1925205	3	CAPSCREW, Hex Head, 5/16-18 x 17/64
28	1917356	7	LOCKWASHER, 5/16
29	1665982	1	RETAINER, Bearing
30	108202	1	BEARING, Ball
31	1612186	1	HOUSING ASSEMBLY, Auger, 32"
32	1715787	2	CUTTER, Drift
33	1921332	4	CAPSCREW, Hex Head, 5/16-18 x 3/4
34	1923325	6	CAPSCREW, Hex Head, 5/16-18 x 7/8
35	1668639	2	BEARING, Cap
36	1665980	2	BEARING, Auger, Flange
37	1663189	2	SPACER
38	1916950	4	NUT, Hex, 3/8-16
39	1916965	4	LOCKWASHER, 3/8
40	1924940	4	WASHER, Flat, 13/32
41	177434	2	SKID
42	1709948	1	BLADE, Scraper, 32"
43	1935048	5	NUT, Hex Flange, 2-Way Lock, 5/16-18
44	1931348	4	CARRIAGE BOLT, 3/8-16 x 3/4
45	1923362	6	NUT, Hex, Center Lock, 5/16-18
46	1917372	4	NUT, Hex, 5/16-18

Footnotes:

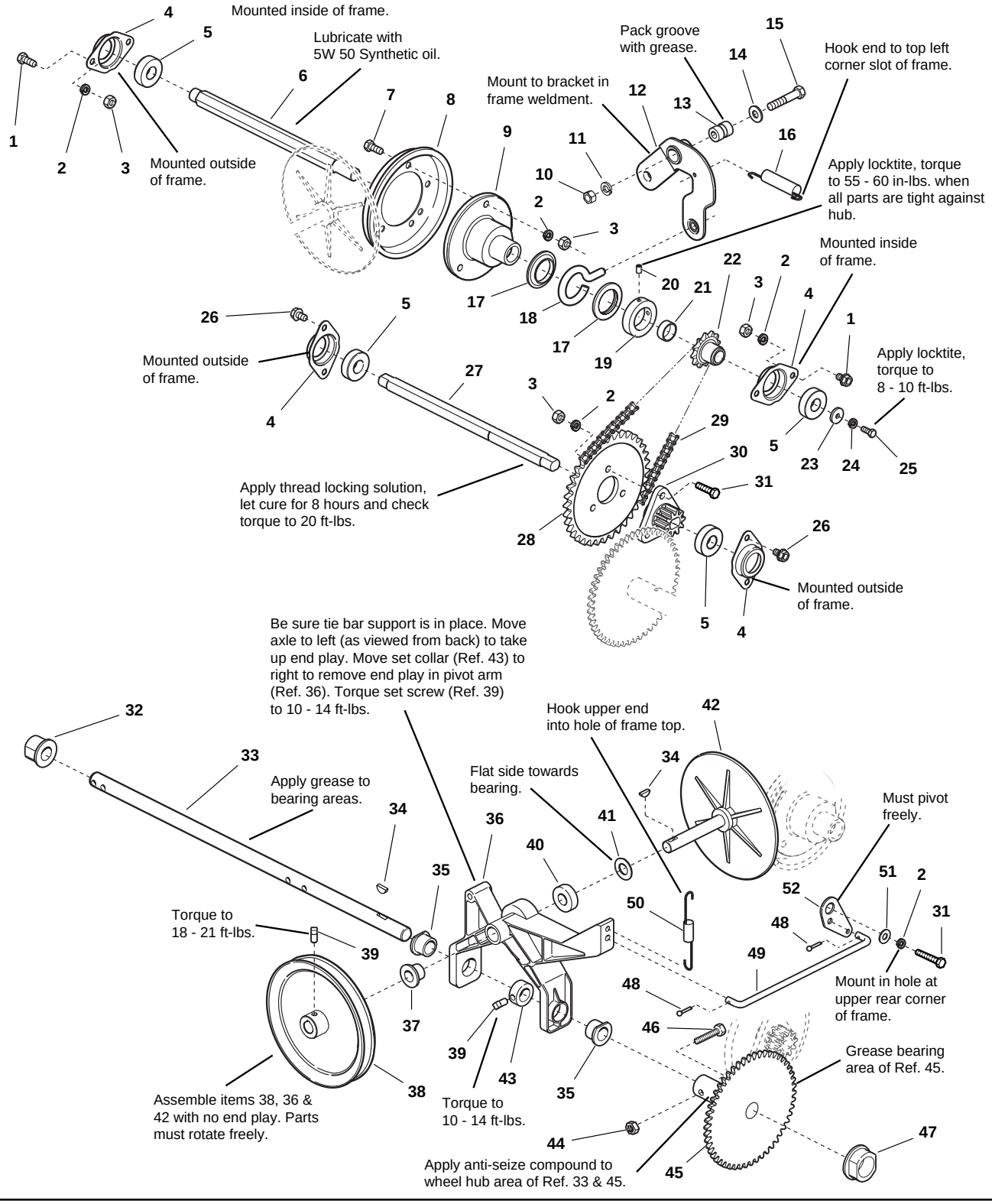
The above parts group applies to the following Mfg. Nos.:

1693656 1180M, 11HP Manual Start
1693657 1180M, 11HP Manual Start (Export)
1694244 1180E, 11HP Electrical Start

Traction Drive Group

985637

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Mounted inside of frame.
Lubricate with 5W 50 Synthetic oil.
Pack groove with grease.
Hook end to top left corner slot of frame.
Mount to bracket in frame weldment.
Mounted outside of frame.
Apply locktite, torque to 55 - 60 in-lbs. when all parts are tight against hub.
Mounted inside of frame.
Mounted outside of frame.
Apply locktite, torque to 8 - 10 ft-lbs.
Apply thread locking solution, let cure for 8 hours and check torque to 20 ft-lbs.
Mounted outside of frame.
Be sure tie bar support is in place. Move axle to left (as viewed from back) to take up end play. Move set collar (Ref. 43) to right to remove end play in pivot arm (Ref. 36). Torque set screw (Ref. 39) to 10 - 14 ft-lbs.
Hook upper end into hole of frame top.
Apply grease to bearing areas.
Flat side towards bearing.
Must pivot freely.
Torque to 18 - 21 ft-lbs.
Mount in hole at upper rear corner of frame.
Grease bearing area of Ref. 45.
Assemble items 38, 36 & 42 with no end play. Parts must rotate freely.
Torque to 10 - 14 ft-lbs.
Apply anti-seize compound to wheel hub area of Ref. 33 & 45.

The above parts group applies to the following Mfg. Nos.:

1693650 860M, 8HP Manual Start
1693651 860M, 8HP Manual Start (Export)

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Traction Drive Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1925205	4	CAPSCREW, Hex Head, 5/16-18 x 5/8
2	1917356	11	LOCKWASHER, 5/16
3	1917372	10	NUT, Hex, 5/16-18
4	1667341	4	RETAINER, Bearing
5	1705897	4	BEARING
6	1667340	1	SHAFT, Hex
7	1921332	3	CAPSCREW, Hex Head, 5/16-18 x 3/4
8	1665975	1	DISC, Friction
9	1665995	1	HUB, Friction Disc
10	1916950	1	NUT, Hex, 3/8-16
11	1916965	1	LOCKWASHER, 3/8
12	1669256	1	ARM ASSEMBLY, Shift w/Bushings
13	1666114	1	BUSHING, Spacer
14	1924940	1	WASHER, Flat, 13/32
15	1923701	1	CAPSCREW, Hex Head, 3/8-16 x 2
16	1668255	1	SPRING
17	1678956	2	COLLAR, Thrust
18	1666207	1	PIN, Slide
19	1667335	1	SET COLLAR
20	1724333	2	SETSCREW, Square Head, 1/4-20 x 1/2
21	1667501	1	SPACER
22	1667331	1	SPROCKET, 10 Tooth
23	1960353	1	WASHER, Flat, 1/4
24	1916964	1	LOCKWASHER, 1/4
25	1921959	1	CAPSCREW, Hex Head, 1 /4-20 x 5/8
26	1924856	4	CAPSCREW, Taptite, 5/16-18 x 1/2
27	1612160	1	JACKSHAFT
28	1667330	1	SPROCKET, 36 Tooth
29	1666980	1	CHAIN, Drive, 40
30	1672775	1	GEAR & BEARING ASSEMBLY., 10 Tooth
31	1921333	4	CAPSCREW, Hex Head, 5/16-18 x 1
32	1666001	1	BUSHING
33	1612084	1	AXLE
34	918312	2	KEY, Woodruff, 3/16 x 5/8
35	1666425	2	BUSHING
36	1670849	1	ARM ASSEMBLY, Pivot w/Bushings, (Includes Ref. 35, 37 & 40)
37	1666855	1	BUSHING
38	1672595	1	PULLEY, Traction
39	1928721	2	SETSCREW, Square Head, 5/16-18 x 1/2
40	1665521	1	BEARING
41	1666379	1	WASHER
42	1719879	1	DRIVE DISC W/SPINDLE
43	8021010	1	SET COLLAR
44	1919438	1	NUT, Hex, Lock, 5/16-18
45	1612086	1	GEAR & HUB ASSEMBLY, w/Bushing, 50 Tooth
46	1930570	1	CAPSCREW, Hex Head, 5/16-18 x 1-1/2
47	1720682	1	BUSHING, Axle
48	1918451	2	PIN, Cotter, 1/8 x 3/4
49	1666105	1	ROD, Pivot

Footnotes:

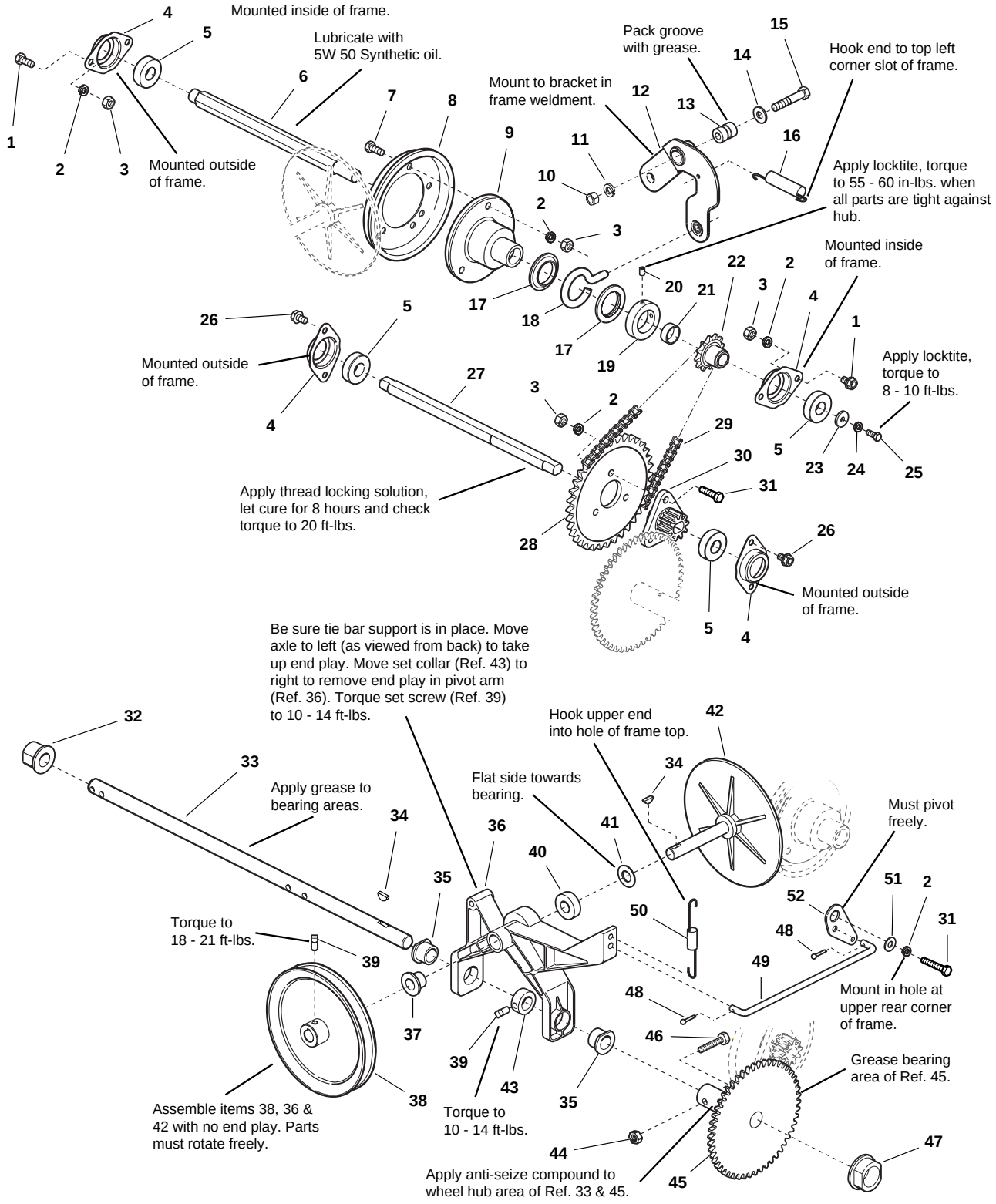
The above parts group applies to the following Mfg. Nos.:

1693650 860M, 8HP Manual Start
1693651 860M, 8HP Manual Start (Export)

Traction Drive Group

985637

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Mounted inside of frame.
Lubricate with 5W 50 Synthetic oil.
Pack groove with grease.
Hook end to top left corner slot of frame.
Mount to bracket in frame weldment.
Mounted outside of frame.
Apply locktite, torque to 55 - 60 in-lbs. when all parts are tight against hub.
Mounted inside of frame.
Mounted outside of frame.
Apply locktite, torque to 8 - 10 ft-lbs.
Apply thread locking solution, let cure for 8 hours and check torque to 20 ft-lbs.
Mounted outside of frame.
Be sure tie bar support is in place. Move axle to left (as viewed from back) to take up end play. Move set collar (Ref. 43) to right to remove end play in pivot arm (Ref. 36). Torque set screw (Ref. 39) to 10 - 14 ft-lbs.
Hook upper end into hole of frame top.
Apply grease to bearing areas.
Flat side towards bearing.
Must pivot freely.
Torque to 18 - 21 ft-lbs.
Mount in hole at upper rear corner of frame.
Grease bearing area of Ref. 45.
Assemble items 38, 36 & 42 with no end play. Parts must rotate freely.
Torque to 10 - 14 ft-lbs.
Apply anti-seize compound to wheel hub area of Ref. 33 & 45.

The above parts group applies to the following Mfg. Nos.:

1693650 860M, 8HP Manual Start
1693651 860M, 8HP Manual Start (Export)

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Traction Drive Group

REF NO.	PART NO.	QTY.	DESCRIPTION
50	1707002	1	SPRING
51	1919326	2	WASHER, Flat, 11/32
52	1700473	1	BELLCRANK

Footnotes:

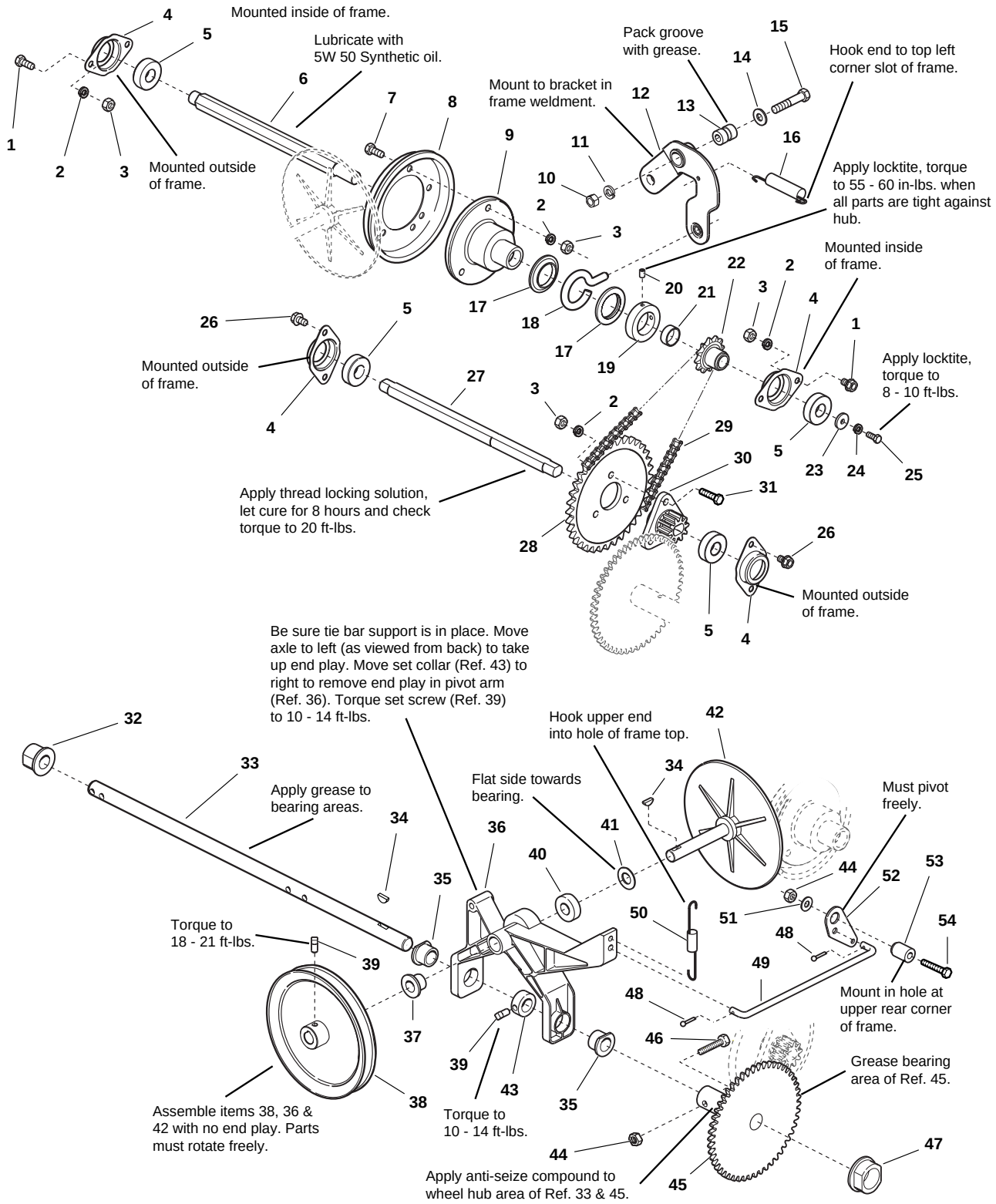
The above parts group applies to the following Mfg. Nos.:

1693650 860M, 8HP Manual Start
1693651 860M, 8HP Manual Start (Export)

Traction Drive Group

985772

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Mounted inside of frame.
Lubricate with 5W 50 Synthetic oil.
Pack groove with grease.
Hook end to top left corner slot of frame.
Mount to bracket in frame weldment.
Mounted outside of frame.
Apply locktite, torque to 55 - 60 in-lbs. when all parts are tight against hub.
Mounted inside of frame.
Mounted outside of frame.
Apply locktite, torque to 8 - 10 ft-lbs.
Apply thread locking solution, let cure for 8 hours and check torque to 20 ft-lbs.
Mounted outside of frame.
Be sure tie bar support is in place. Move axle to left (as viewed from back) to take up end play. Move set collar (Ref. 43) to right to remove end play in pivot arm (Ref. 36). Torque set screw (Ref. 39) to 10 - 14 ft-lbs.
Hook upper end into hole of frame top.
Apply grease to bearing areas.
Flat side towards bearing.
Must pivot freely.
Torque to 18 - 21 ft-lbs.
Mount in hole at upper rear corner of frame.
Grease bearing area of Ref. 45.
Assemble items 38, 36 & 42 with no end play. Parts must rotate freely.
Torque to 10 - 14 ft-lbs.
Apply anti-seize compound to wheel hub area of Ref. 33 & 45.

The above parts group applies to the following Mfg. Nos.:

1693763 860M, 8HP Manual Start
1693775 860M, 8HP Manual Start (Export)
1693984 860M, 8HP Manual Start
1693985 860M, 8HP Manual Start (Export)
1694242 860E, 8HP Electric Start

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Traction Drive Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1925205	4	CAPSCREW, Hex Head, 5/16-18 x 5/8
2	1917356	11	LOCKWASHER, 5/16
3	1917372	10	NUT, Hex, 5/16-18
4	1667341	4	RETAINER, Bearing
5	1705897	4	BEARING
6	1667340	1	SHAFT, Hex
7	1921332	3	CAPSCREW, Hex Head, 5/16-18 x 3/4
8	1665975	1	DISC, Friction
9	1665995	1	HUB, Friction Disc
10	1916950	1	NUT, Hex, 3/8-16
11	1916965	1	LOCKWASHER, 3/8
12	1669256	1	ARM ASSEMBLY, Shift w/Bushings
13	1666114	1	BUSHING, Spacer
14	1924940	1	WASHER, Flat, 13/32
15	1923701	1	CAPSCREW, Hex Head, 3/8-16 x 2
16	1668255	1	SPRING
17	1678956	2	COLLAR, Thrust
18	1666207	1	PIN, Slide
19	1667335	1	SET COLLAR
20	1724333	2	SETSCREW, Square Head, 1/4-20 x 1/2
21	1667501	1	SPACER
22	1667331	1	SPROCKET, 10 Tooth
23	1960353	1	WASHER, Flat, 1/4
24	1916964	1	LOCKWASHER, 1/4
25	1921959	1	CAPSCREW, Hex Head, 1 /4-20 x 5/8
26	1924856	4	CAPSCREW, Taptite, 5/16-18 x 1/2
27	1612160	1	JACKSHAFT
28	1667330	1	SPROCKET, 36 Tooth
29	1666980	1	CHAIN, Drive, 40
30	1672775	1	GEAR & BEARING ASSEMBLY., 10 Tooth
31	1921333	3	CAPSCREW, Hex Head, 5/16-18 x 1
32	1666001	1	BUSHING
33	1612084	1	AXLE
34	918312	2	KEY, Woodruff, 3/16 x 5/8
35	1666425	2	BUSHING
36	1670849	1	ARM ASSEMBLY, Pivot w/Bushings, (Includes Ref. 35, 37 & 40)
37	1666855	1	BUSHING
38	1672595	1	PULLEY, Traction
39	1928721	2	SETSCREW, Square Head, 5/16-18 x 1/2
40	1665521	1	BEARING
41	1666379	1	WASHER
42	1719879	1	DRIVE DISC W/SPINDLE
43	8021010	1	SET COLLAR
44	1919438	1	NUT, Hex, Lock, 5/16-18
45	1612086	1	GEAR & HUB ASSEMBLY, w/Bushing, 50 Tooth
46	1930570	1	CAPSCREW, Hex Head, 5/16-18 x 1-1/2
47	1720682	1	BUSHING, Axle
48	1918451	2	PIN, Cotter, 1/8 x 3/4
49	1666105	1	ROD, Pivot

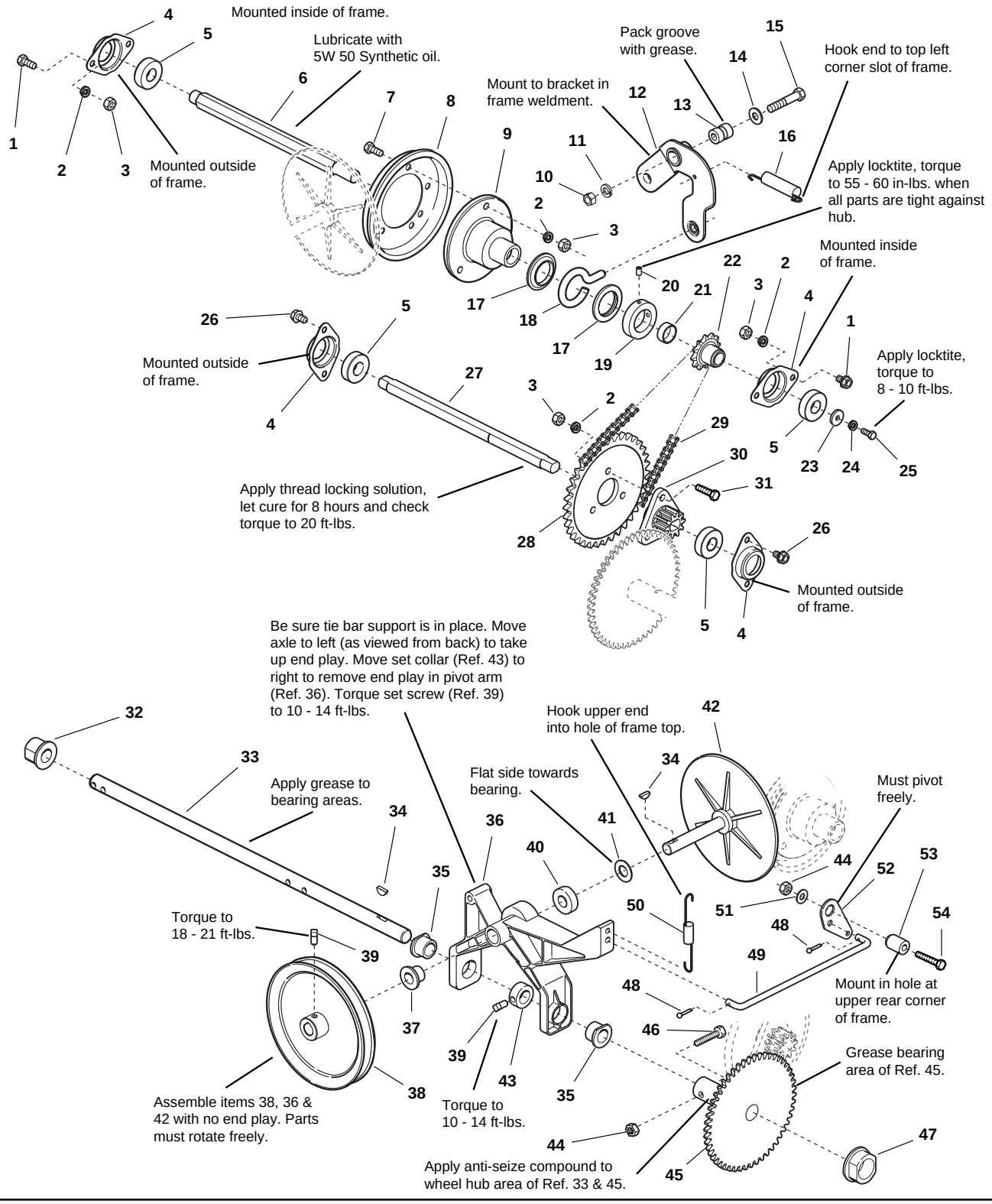
Footnotes:

The above parts group applies to the following Mfg. Nos.:

1693763 860M, 8HP Manual Start
1693775 860M, 8HP Manual Start (Export)
1693984 860M, 8HP Manual Start
1693985 860M, 8HP Manual Start (Export)
1694242 860E, 8HP Electric Start

Traction Drive Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Mounted inside of frame.
Lubricate with 5W 50 Synthetic oil.
Pack groove with grease.
Hook end to top left corner slot of frame.
Mount to bracket in frame weldment.
Mounted outside of frame.
Apply locktite, torque to 55 - 60 in-lbs. when all parts are tight against hub.
Mounted inside of frame.
Mounted outside of frame.
Apply locktite, torque to 8 - 10 ft-lbs.
Apply thread locking solution, let cure for 8 hours and check torque to 20 ft-lbs.
Mounted outside of frame.
Be sure tie bar support is in place. Move axle to left (as viewed from back) to take up end play. Move set collar (Ref. 43) to right to remove end play in pivot arm (Ref. 36). Torque set screw (Ref. 39) to 10 - 14 ft-lbs.
Hook upper end into hole of frame top.
Apply grease to bearing areas.
Flat side towards bearing.
Must pivot freely.
Torque to 18 - 21 ft-lbs.
Mount in hole at upper rear corner of frame.
Grease bearing area of Ref. 45.
Assemble items 38, 36 & 42 with no end play. Parts must rotate freely.
Torque to 10 - 14 ft-lbs.
Apply anti-seize compound to wheel hub area of Ref. 33 & 45.

The above parts group applies to the following Mfg. Nos.:

1693763 860M, 8HP Manual Start
1693775 860M, 8HP Manual Start (Export)
1693984 860M, 8HP Manual Start
1693985 860M, 8HP Manual Start (Export)
1694242 860E, 8HP Electric Start

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Traction Drive Group

REF NO.	PART NO.	QTY.	DESCRIPTION
50	1707002	1	SPRING
51	1919326	2	WASHER, Flat, 11/32
52	1700473	1	BELLCRANK
53	1666106	1	BUSHING, Pivot
54	1922127	1	CAPSCREW, Hex Head, 5/16-18 x 1-3/4

Footnotes:

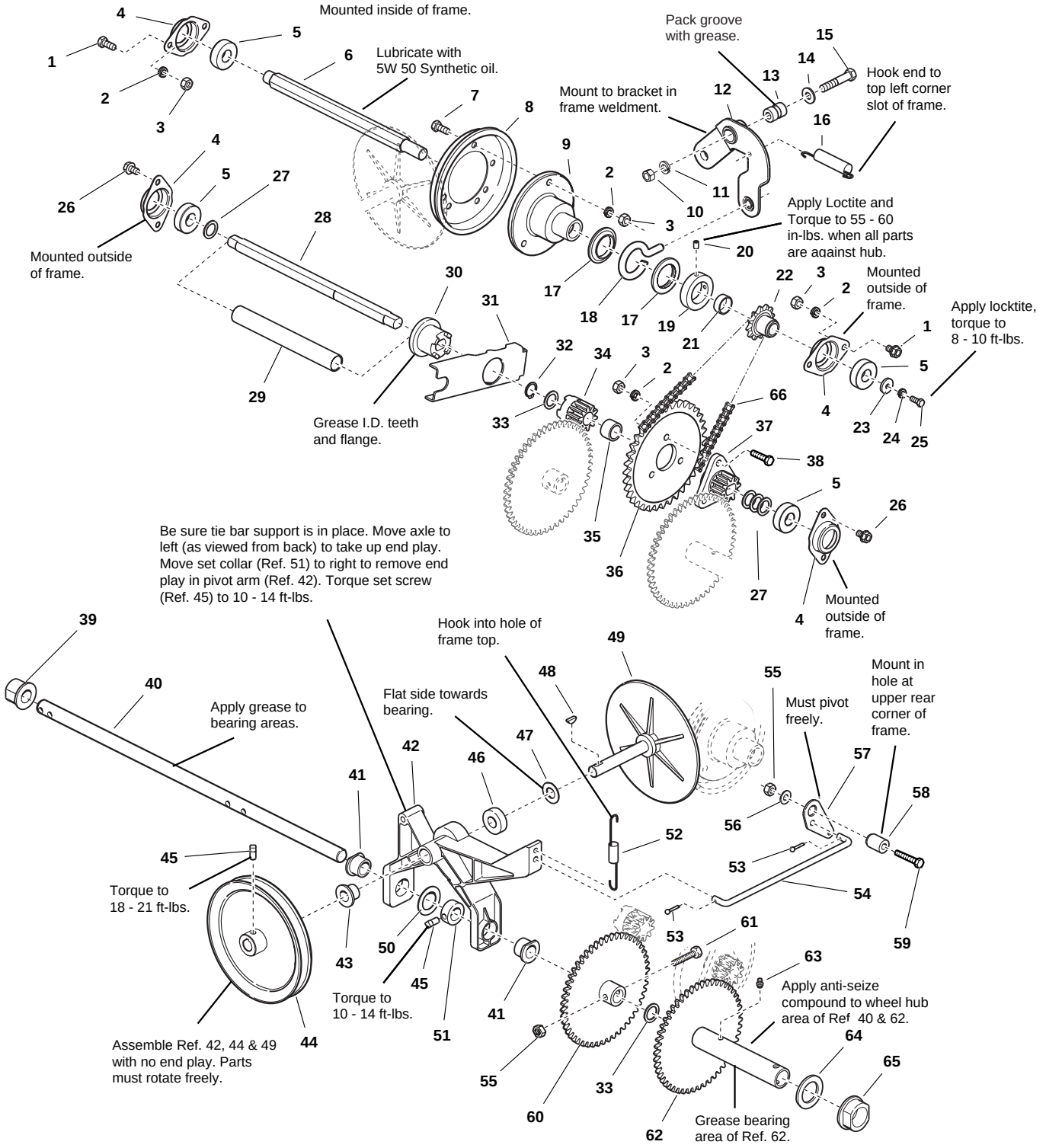
The above parts group applies to the following Mfg. Nos.:

1693763 860M, 8HP Manual Start
1693775 860M, 8HP Manual Start (Export)
1693984 860M, 8HP Manual Start
1693985 860M, 8HP Manual Start (Export)
1694242 860E, 8HP Electric Start

Traction Drive Group

985638

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Mounted inside of frame.
Lubricate with 5W 50 Synthetic oil.
Pack groove with grease.
Hook end to top left corner slot of frame.
Mount to bracket in frame weldment.
Apply Loctite and Torque to 55 - 60 in-lbs. when all parts are against hub.
Mounted outside of frame.
Apply locktite, torque to 8 - 10 ft-lbs.
Mounted outside of frame.
Grease I.D. teeth and flange.
Be sure tie bar support is in place. Move axle to left (as viewed from back) to take up end play. Move set collar (Ref. 51) to right to remove end play in pivot arm (Ref. 42). Torque set screw (Ref. 45) to 10 - 14 ft-lbs.
Hook into hole of frame top.
Flat side towards bearing.
Apply grease to bearing areas.
Must pivot freely.
Mount in hole at upper rear corner of frame.
Torque to 18 - 21 ft-lbs.
Torque to 10 - 14 ft-lbs.
Assemble Ref. 42, 44 & 49 with no end play. Parts must rotate freely.
Apply anti-seize compound to wheel hub area of Ref 40 & 62.
Grease bearing area of Ref. 62.

The above parts group applies to the following Mfg. Nos.:

1693652	860DLX, 8HP Manual Start	1694243	970E, 9HP Electrical Start
1693653	860DLX, 8HP Manual Start (Export)	1693656	1180M, 11HP Manual Start
1694241	860DLXE, 8HP Electric Start	1693657	1180M, 11HP Manual Start (Export)
1693654	970M, 9HP Manual Start	1694244	1180E, 11HP Electrical Start
1693655	970M, 9HP Manual Start (Export)		

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Traction Drive Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1925205	4	CAPSCREW, Hex Head, 5/16-18 x 5/8
2	1917356	10	LOCKWASHER, 5/16
3	1917372	10	NUT, Hex, 5/16-18
4	1667341	4	RETAINER, Bearing
5	1705897	4	BEARING
6	1667340	1	SHAFT, Hex
7	1921332	3	CAPSCREW, Hex Head, 5/16-18 x 3/4
8	1665975	1	DISC, Friction
9	1665995	1	HUB, Friction Disc
10	1916950	1	NUT, Hex, 3/8-16
11	1916965	1	LOCKWASHER, 3/8
12	1669256	1	ARM ASSEMBLY, Shift w/Bushings
13	1666114	1	BUSHING, Spacer
14	1924940	1	WASHER, Flat, 13/32
15	1923701	1	CAPSCREW, Hex Head, 3/8-16 x 2
16	1668255	1	SPRING
17	1678956	2	COLLAR, Thrust
18	1666207	1	PIN, Slide
19	1667335	1	SET COLLAR
20	1724333	2	SETSCREW, Square Head, 1/4-20 x 1/2
21	1720409	1	SPACER,
22	1667331	1	SPROCKET, 10 Tooth
23	1960353	1	WASHER, Flat, 1/4
24	1916964	1	LOCKWASHER, 1/4
25	1921959	1	CAPSCREW, Hex Head, 1 /4-20 x 5/8
26	1924856	4	CAPSCREW, Taptite, 5/16-18 x 1/2
27	960164	4	WASHER
28	1718752	1	JACKSHAFT
29	1720298	1	SPRING, Compression
30	1718689	1	CLUTCH, Sliding
31	1720078	1	ARM, Clutch
32	927732	1	RING, Retaining
33	1960114	2	WASHER, 3/4
34	1718688	1	GEAR, 10 Tooth, Stationary, Clutch
35	1679556	1	SPACER
36	1667330	1	SPROCKET, 36 Tooth
37	1718687	1	GEAR, 10 Tooth, Double D
38	1921333	3	CAPSCREW, Hex Head, 5/16-18 x 1
39	1666001	1	BUSHING
40	1720299	1	AXLE
41	1666425	2	BUSHING
42	1670849	1	ARM ASSEMBLY, Pivot w/Bushings (Includes Ref. 41, 43 & 46)
43	1666855	1	BUSHING
44	1672595	1	PULLEY, Traction
45	1928721	2	SETSCREW, Square Head, 5/16-18 x 1/2
46	1665521	1	BEARING
47	1666379	1	WASHER
48	918312	1	KEY, Woodruff, 3/16 x 5/8
49	1719879	1	DRIVE DISC W/SPINDLE

Footnotes:

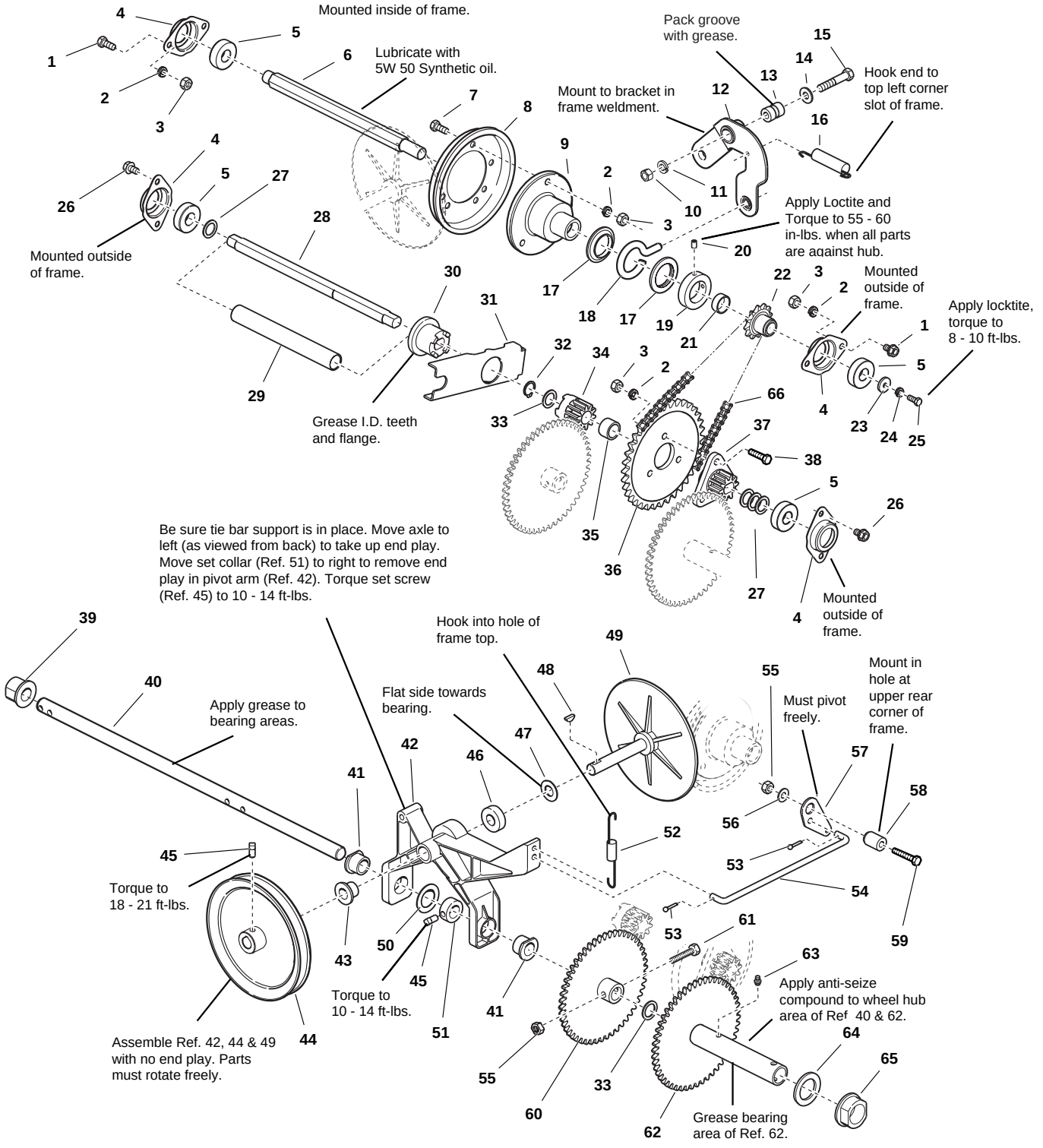
The above parts group applies to the following Mfg. Nos.:

1693652	860DLX, 8HP Manual Start	1694243	970E, 9HP Electrical Start
1693653	860DLX, 8HP Manual Start (Export)	1693656	1180M, 11HP Manual Start
1694241	860DLXE, 8HP Electric Start	1693657	1180M, 11HP Manual Start (Export)
1693654	970M, 9HP Manual Start	1694244	1180E, 11HP Electrical Start
1693655	970M, 9HP Manual Start (Export)		

Traction Drive Group

985638

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.


Mounted inside of frame.
Lubricate with 5W 50 Synthetic oil.
Pack groove with grease.
Hook end to top left corner slot of frame.
Mount to bracket in frame weldment.
Apply Loctite and Torque to 55 - 60 in-lbs. when all parts are against hub.
Mounted outside of frame.
Apply locktite, torque to 8 - 10 ft-lbs.
Mounted outside of frame.
Grease I.D. teeth and flange.
Be sure tie bar support is in place. Move axle to left (as viewed from back) to take up end play. Move set collar (Ref. 51) to right to remove end play in pivot arm (Ref. 42). Torque set screw (Ref. 45) to 10 - 14 ft-lbs.
Hook into hole of frame top.
Flat side towards bearing.
Apply grease to bearing areas.
Must pivot freely.
Mount in hole at upper rear corner of frame.
Torque to 18 - 21 ft-lbs.
Torque to 10 - 14 ft-lbs.
Assemble Ref. 42, 44 & 49 with no end play. Parts must rotate freely.
Apply anti-seize compound to wheel hub area of Ref 40 & 62.
Grease bearing area of Ref. 62.

The above parts group applies to the following Mfg. Nos.:

1693652	860DLX, 8HP Manual Start	1694243	970E, 9HP Electrical Start
1693653	860DLX, 8HP Manual Start (Export)	1693656	1180M, 11HP Manual Start
1694241	860DLXE, 8HP Electric Start	1693657	1180M, 11HP Manual Start (Export)
1693654	970M, 9HP Manual Start	1694244	1180E, 11HP Electrical Start
1693655	970M, 9HP Manual Start (Export)		

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Traction Drive Group

REF NO.	PART NO.	QTY.	DESCRIPTION
50	1919394	1	WASHER
51	8021010	1	SET COLLAR
52	1707002	1	SPRING
53	1918451	2	PIN, Cotter, 1/8 x 3/4
54	1666105	1	ROD, Pivot
55	1919438	3	NUT, Hex, Lock, 5/16-18
56	1919326	1	WASHER, Flat, 11/32
57	1700473	1	BELLCRANK
58	1666106	1	BUSHING, Pivot
59	1922127	1	CAPSCREW, Hex Head, 5/16-18 x 1 -3/4
60	1720300	1	GEAR & HUB ASSEMBLY, 50 Tooth
61	1930570	2	CAPSCREW, Hex Head, 5/16-18 x 1-1/2
62	1720716	1	GEAR & HUB ASSEMBLY, w/Bushing, 50 Tooth
63	921133	1	FITTING, Lube
64	960169	1	WASHER
65	1720305	1	BUSHING
66	1666980	1	CHAIN, Drive, #40

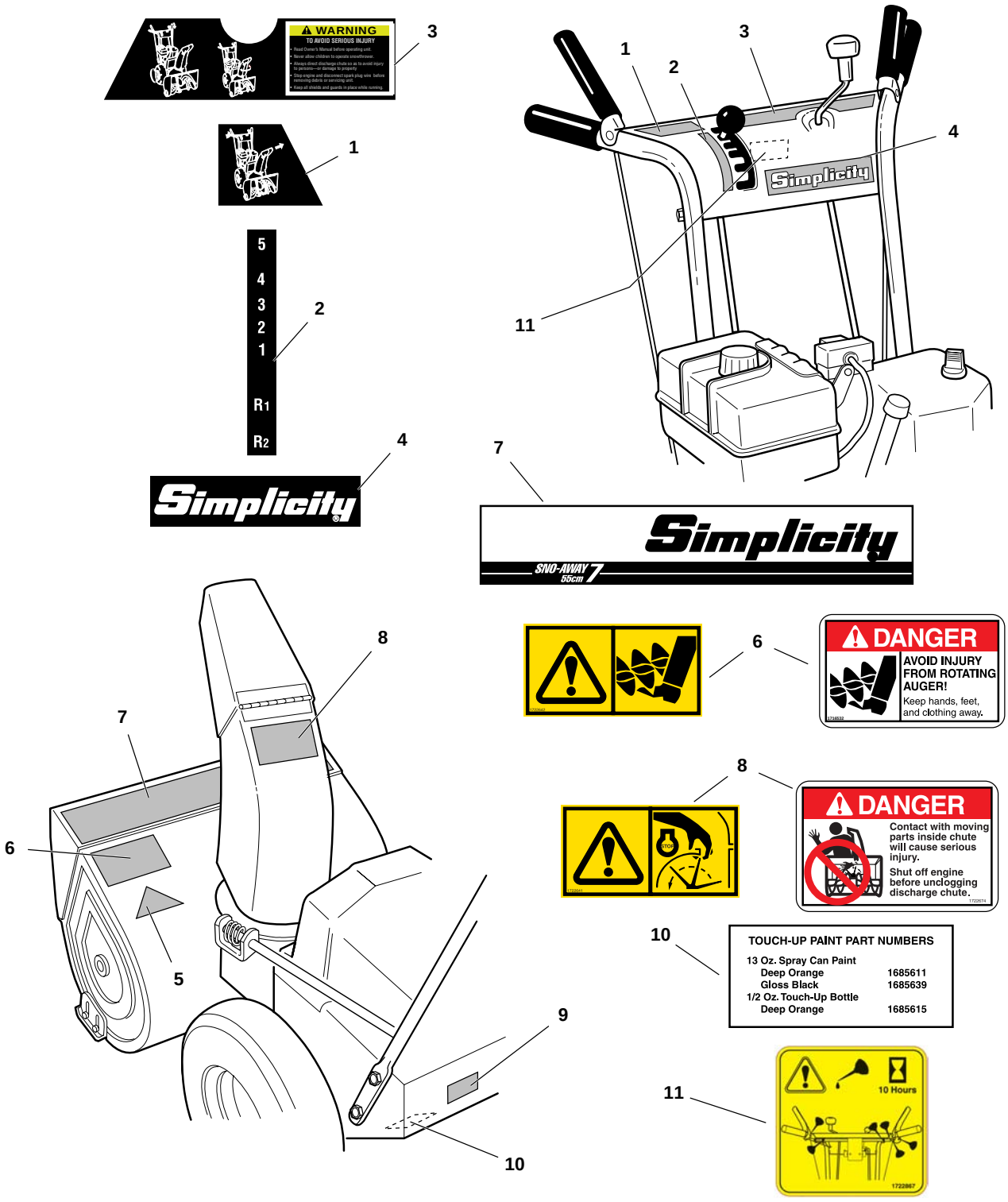
Footnotes:

The above parts group applies to the following Mfg. Nos.:

1693652	860DLX, 8HP Manual Start	1694243	970E, 9HP Electrical Start
1693653	860DLX, 8HP Manual Start (Export)	1693656	1180M, 11HP Manual Start
1694241	860DLXE, 8HP Electric Start	1693657	1180M, 11HP Manual Start (Export)
1693654	970M, 9HP Manual Start	1694244	1180E, 11HP Electrical Start
1693655	970M, 9HP Manual Start (Export)		

D985670

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

1693650	860M, 8HP Manual Start	1693985	860M, 8HP Manual Start (Export)
1693651	860M, 8HP Manual Start (Export)	1694242	860E, 8HP Electric Start
1693763	860M, 8HP Manual Start		
1693775	860M, 8HP Manual Start (Export)		
1693984	860M, 8HP Manual Start		

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Decals Group - 860

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1715555	1	DECAL, Auger Control
1	1722640	1	DECAL, Auger Control (1693984 & 1693985)
2	1715557	1	DECAL, Speed Selector
3	1715556	1	DECAL, Warning / Main Dash Panel
3	1722639	1	DECAL, Warning / Main Dash Panel (1693985)
3	1722643	1	DECAL, Warning / Main Dash Panel (1693984)
4	1715558	1	DECAL, Simplicity Logo
5	*	1	DECAL, OPEI (Not Serviced)
6	1716532	1	DECAL, Auger Danger
6	1722642	1	DECAL, Auger Danger (Export)
7	1714106	1	DECAL, Stripe
8	1722641	1	DECAL, Discharge Chute Danger (Export)
8	1722674	1	DECAL, Discharge Chute Danger
9	*	1	I.D. Tag (Not Serviced)
10	1720454	1	DECAL, Touch-up Paint
11	1722867	1	DECAL, Handle Lubrication (1693984 & 1693985)

Footnotes:

* Not a Service Part

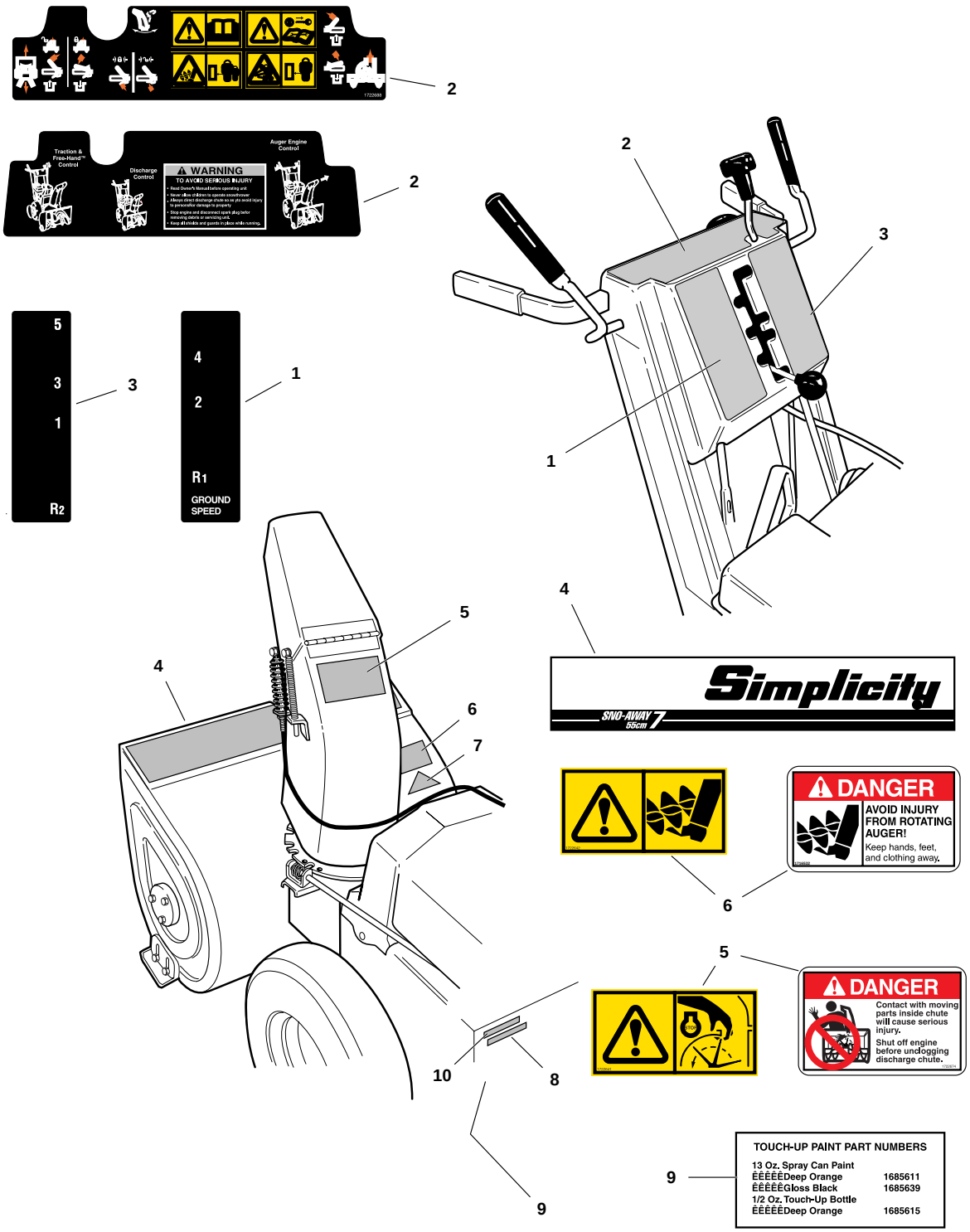
The above parts group applies to the following Mfg. Nos.:

1693650 860M, 8HP Manual Start
1693651 860M, 8HP Manual Start (Export)
1693763 860M, 8HP Manual Start
1693775 860M, 8HP Manual Start (Export)
1693984 860M, 8HP Manual Start
1693985 860M, 8HP Manual Start (Export)
1694242 860E, 8HP Electric Start

Decals Group - 860DLX, 970 & 1180

D985935

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

1693652	860DLX, 8HP Manual Start	1694243	970E, 9HP Electrical Start
1693653	860DLX, 8HP Manual Start (Export)	1693656	1180M, 11HP Manual Start
1694241	860DLXE, 8HP Electric Start	1693657	1180M, 11HP Manual Start (Export)
1693654	970M, 9HP Manual Start	1694244	1180E, 11HP Electrical Start
1693655	970M, 9HP Manual Start (Export)		

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Decals Group - 860DLX, 970 & 1180

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1714245	1	DECAL, Shift Pattern, RH
2	1720674	1	DECAL, Dash
2	1724078	1	DECAL, Dash
2	1722688	1	DECAL, Dash (Export)
3	1714246	1	DECAL, Shift Pattern, LH
4	1714106	1	DECAL, Stripe, 860
4	1714841	1	DECAL, Stripe, 970
4	1720537	1	DECAL, Stripe, 1180
5	1722674	1	DECAL, Discharge Chute Danger
5	1722641	1	DECAL, Discharge Chute Danger (Export)
6	1716532	1	DECAL, Auger Danger
6	1722642	1	DECAL, Auger Danger (Export)
7	*	1	DECAL, OPEI (Not Serviced)
8	*	1	DECAL, Decibel (Export)
8	*	1	DECAL, Patent
9	1720454	1	DECAL, Touch Up Paint Deep Orange
10	*	1	I.D. Tag (Not Serviced)

Footnotes:

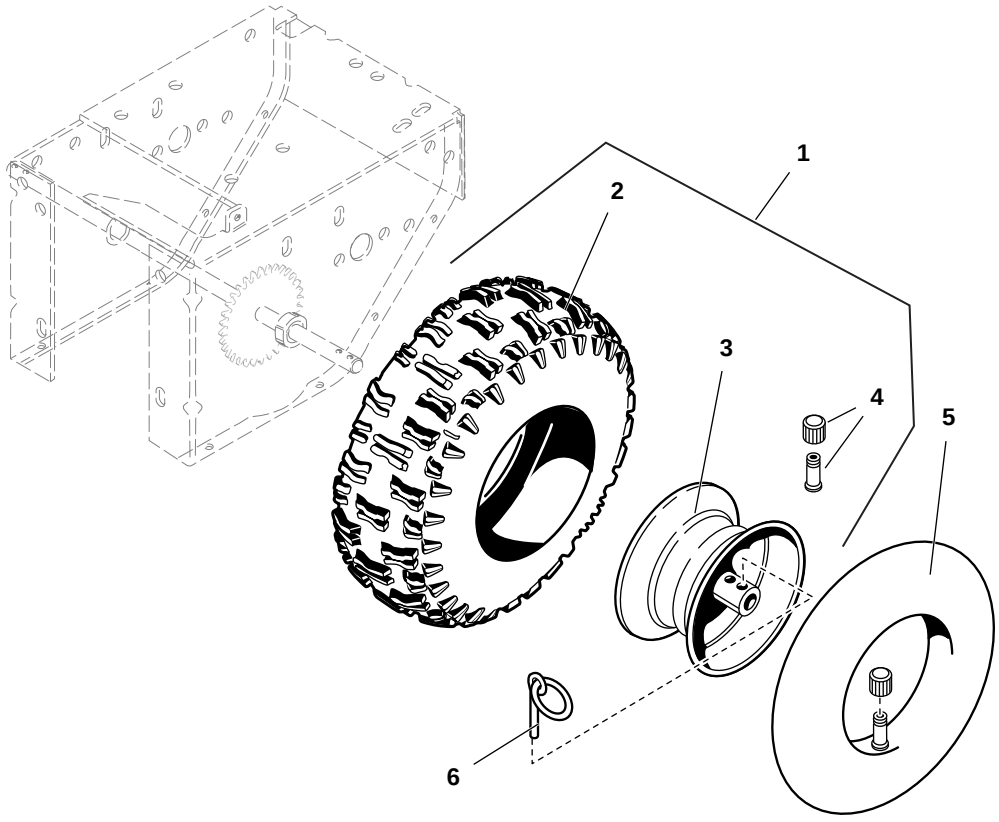
* Not a Service Part

The above parts group applies to the following Mfg. Nos.:

1693652	860DLX, 8HP Manual Start	1694243	970E, 9HP Electrical Start
1693653	860DLX, 8HP Manual Start (Export)	1693656	1180M, 11HP Manual Start
1694241	860DLXE, 8HP Electric Start	1693657	1180M, 11HP Manual Start (Export)
1693654	970M, 9HP Manual Start	1694244	1180E, 11HP Electrical Start
1693655	970M, 9HP Manual Start (Export)		

W983851

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

1693650	860M, 8HP Manual Start	1693985	860M, 8HP Manual Start (Export)
1693651	860M, 8HP Manual Start (Export)	1694242	860E, 8HP Electric Start
1693763	860M, 8HP Manual Start		
1693775	860M, 8HP Manual Start (Export)		
1693984	860M, 8HP Manual Start		

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Wheels & Tires Group - 860

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1714235	2	WHEEL & TIRE ASSEMBLY (Includes Ref. Nos. 2, 3 & 4)
2	1612000	2	TIRE, 4.80-4.00-8
3	1714242	2	HUB, Wheel
4	172353	2	VALVE STEM & CAP
5	153038	2	TUBE, Tire
6	1666969	2	KLIK-PIN

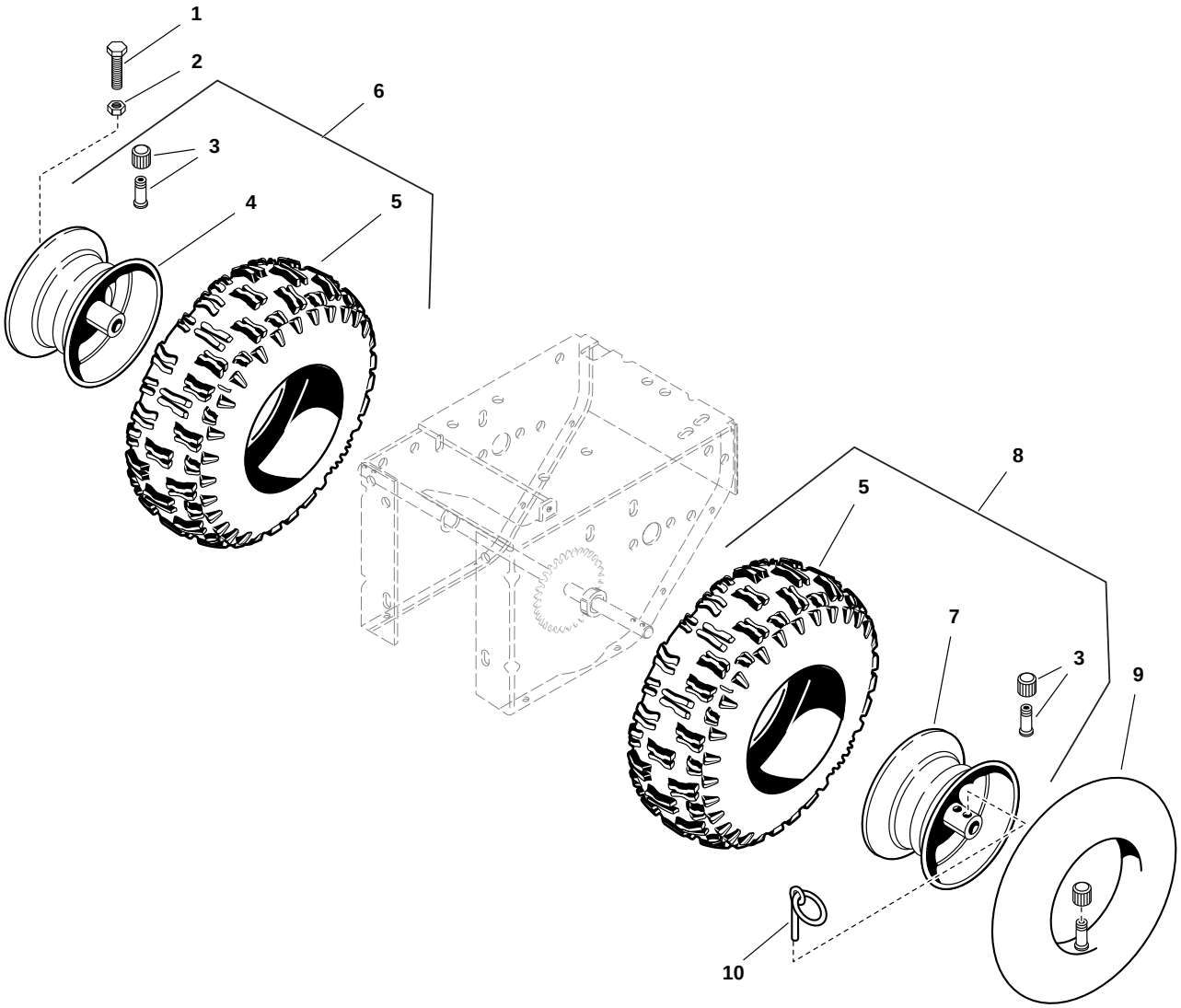
Footnotes:

The above parts group applies to the following Mfg. Nos.:

1693650 860M, 8HP Manual Start
1693651 860M, 8HP Manual Start (Export)
1693763 860M, 8HP Manual Start
1693775 860M, 8HP Manual Start (Export)
1693984 860M, 8HP Manual Start
1693985 860M, 8HP Manual Start (Export)
1694242 860E, 8HP Electric Start

W985644

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

1693652	860DLX, 8HP Manual Start	1694243	970E, 9HP Electricl Start
1693653	860DLX, 8HP Manual Start (Export)		
1694241	860DLXE, 8HP Electric Start		
1693654	970M, 9HP Manual Start		
1693655	970M, 9HP Manual Start (Export)		

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Wheels & Tires Group - 860DLX & 970

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1921978	1	CAPSCREW, Hex Head, 5/16-18 x 2
2	1919438	1	NUT, Hex Lock ESNA Light, 5/16-18
3	172353	2	VALVE STEM & CAP
4	1714242	1	HUB, Wheel, RH
5	1612000	2	TIRE, 4.80-4.00-8
6	1714235	1	WHEEL & TIRE ASSEMBLY, RH (Includes Ref. Nos. 3, 4 & 5)
7	1720307	1	HUB, Wheel, LH
8	1720306	1	WHEEL & TIRE ASSEMBLY, LH (Includes Ref. Nos. 3, 5 & 7)
9	153038	2	TUBE, Tire
10	1666969	1	KLIK-PIN

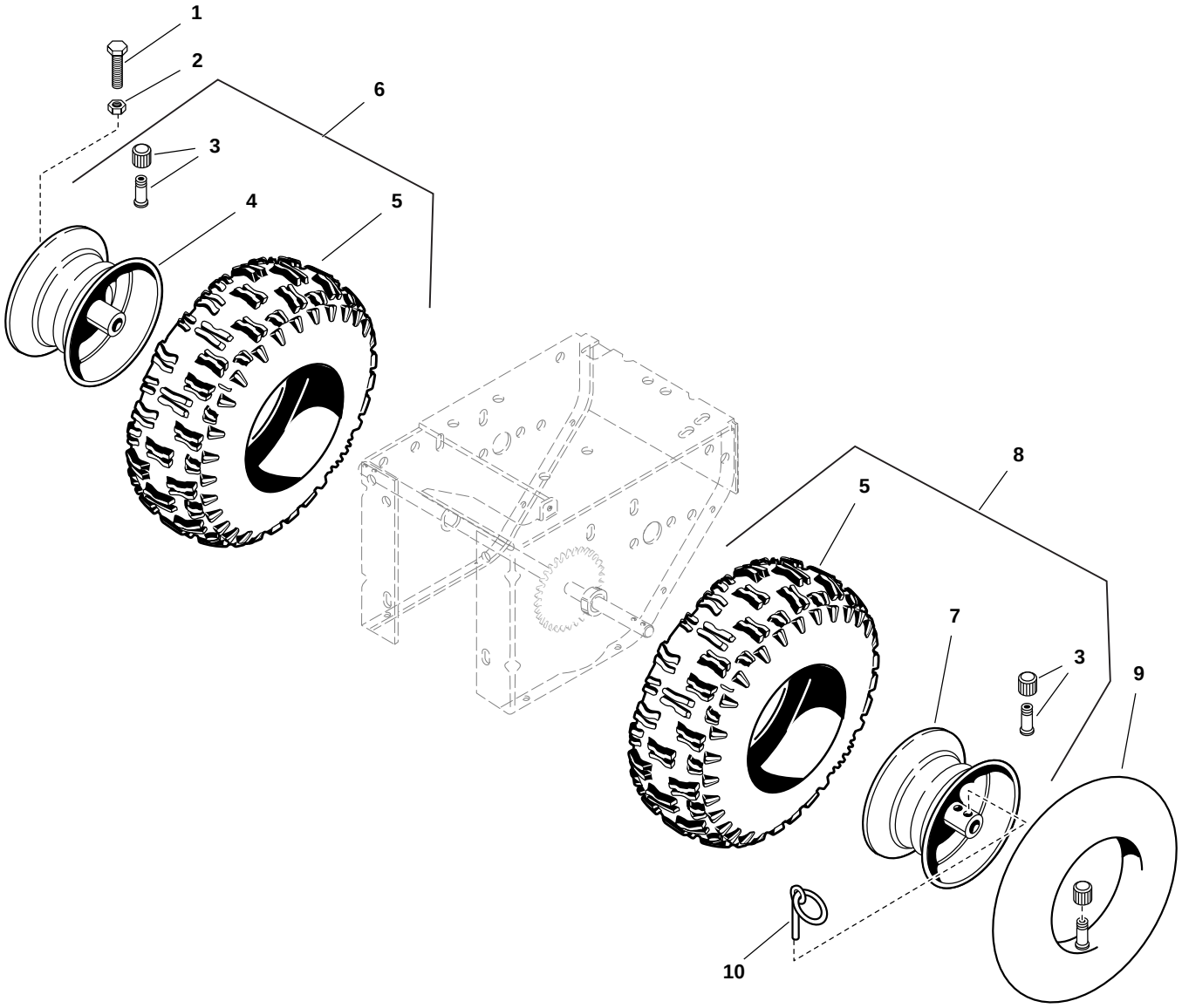
Footnotes:

The above parts group applies to the following Mfg. Nos.:

1693652 860DLX, 8HP Manual Start
1693653 860DLX, 8HP Manual Start (Export)
1694241 860DLXE, 8HP Electric Start
1693654 970M, 9HP Manual Start
1693655 970M, 9HP Manual Start (Export)
1694243 970E, 9HP Electricl Start

W985879

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

1693656 1180M, 11HP Manual Start
1693657 1180M, 11HP Manual Start (Export)
1694244 1180E, 11HP Electricl Start

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Wheels & Tires Group - 1180 & 1390

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1921978	1	CAPSCREW, Hex Head, 5/16-18 x 2
2	1919438	1	NUT, Hex Lock ESNA Light, 5/16-18
3	172353	2	VALVE STEM & CAP
4	1722762	1	HUB, Wheel, RH
5	1722597	2	TIRE, 16 x 6.50-6
6	1722599	1	WHEEL & TIRE ASSEMBLY, RH (Includes Ref. Nos. 3, 4 & 5)
7	1722761	1	HUB, Wheel, LH
8	1722598	1	WHEEL & TIRE ASSEMBLY, LH (Includes Ref. Nos. 3, 5 & 7)
9	153038	2	TUBE, Tire
10	1666969	1	KLIK-PIN

Footnotes:

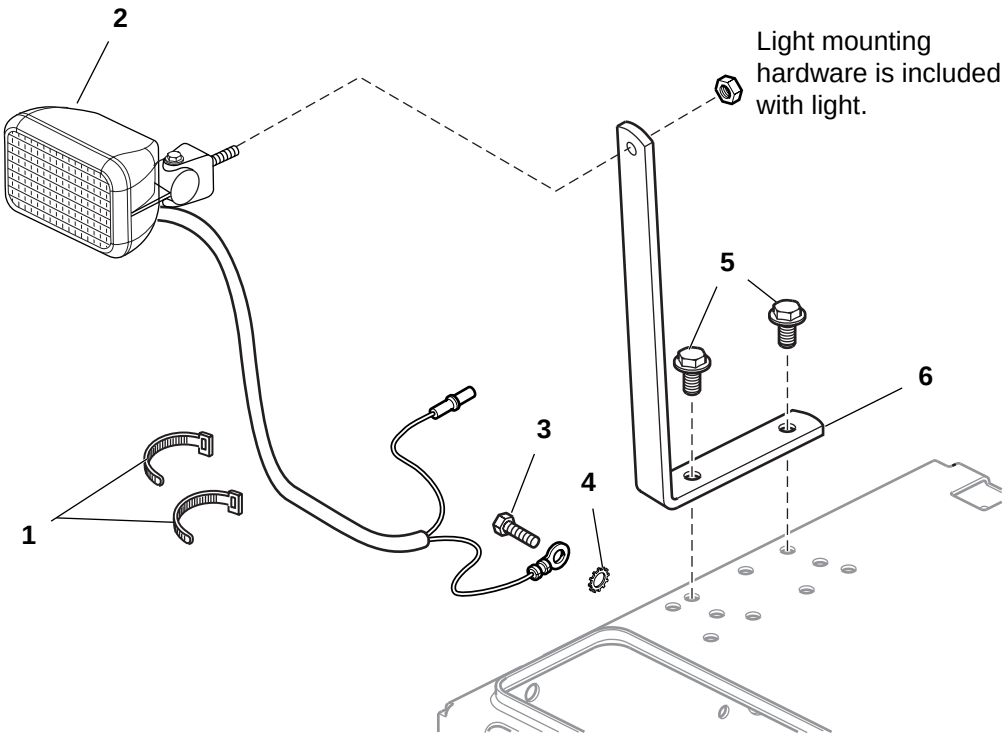
The above parts group applies to the following Mfg. Nos.:

1693656 1180M, 11HP Manual Start
1693657 1180M, 11HP Manual Start (Export)
1694244 1180E, 11HP Electricl Start

Headlight Group

985652

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

1693654 970M, 9HP Manual Start
1693655 970M, 9HP Manual Start (Export)
1694243 970E, 9HP Electrical Start
1693656 1180M, 11HP Manual Start
1693657 1180M, 11HP Manual Start (Export)
1694244 1180E, 11HP Electrical Start

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Headlight Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1921978	1	CAPSCREW, Hex Head, 5/16-18 x 2
2	1919438	1	NUT, Hex Lock ESNA Light, 5/16-18
3	172353	2	VALVE STEM & CAP
4	1714242	2(1)	HUB, Wheel (860, 860DLX, 970 & 1180 Models) (Qty. 1 on 1180 Models)
4	1722762	1	HUB, Wheel, RH, (1180 & 1390 Models)
5	1722597	2	TIRE, (1180 & 1390), 16 x 6.50-6
6	1714235	2(1)	WHEEL & TIRE ASSEMBLY, RH (Includes Ref. Nos. 3, 4 & 5) (860, 970, & 1180 Models) (Qty. 1 on 1180 Models)
6	1722599	1	WHEEL & TIRE ASSEMBLY, RH (Includes Ref. Nos. 3, 4 & 5) (1180, & 1390 Models)
7	1612000	2	TIRE, (860, 860DLX, 970, & 1180 Models), 4.80-4.00-8
8	1720307	1	HUB, Wheel, LH (1180 Models)
8	1722761	1	HUB, Wheel, LH (1180 & 1390 Models)
9	1720306	1	WHEEL & TIRE ASSEMBLY, LH, (Includes Ref. Nos. 3, 7 & 8) (1180 & 1390 Models)
9	1722598	1	WHEEL & TIRE ASSEMBLY, LH, (Includes Ref. Nos. 3, 7 & 8) (1180 & 1390 Models)
10	153038	2	TUBE, Tire
11	1666969	2(1)	KLIK-PIN (Qty. 1 on 1180 & 1390 Models)

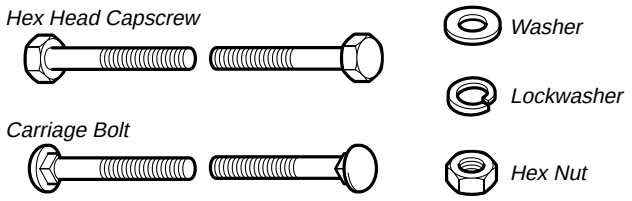
Footnotes:

The above parts group applies to the following Mfg. Nos.:

1693654 970M, 9HP Manual Start
1693655 970M, 9HP Manual Start (Export)
1694243 970E, 9HP Electrical Start
1693656 1180M, 11HP Manual Start
1693657 1180M, 11HP Manual Start (Export)
1694244 1180E, 11HP Electrical Start

Hardware Identification & Torque Specifications

Common Hardware Types

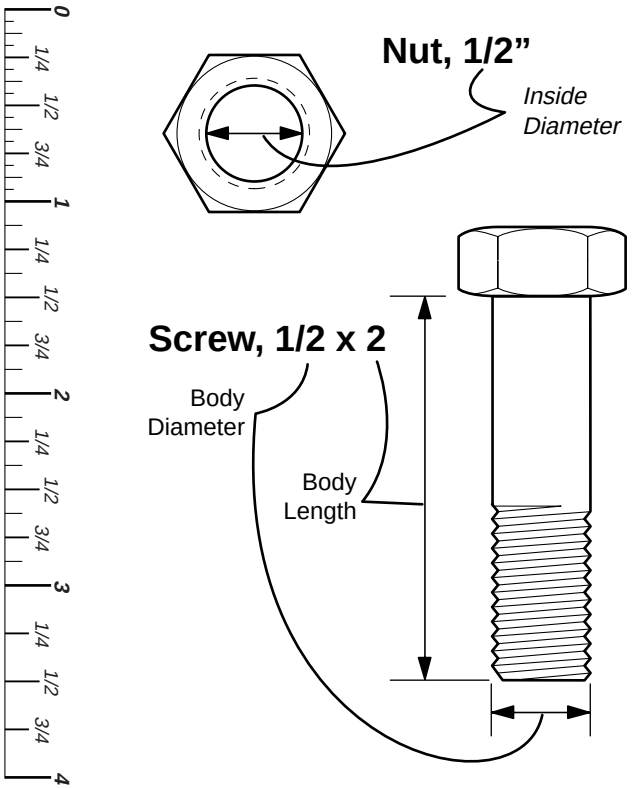


Standard Hardware Sizing

When a washer or nut is identified as **1/2"**, this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch; if a second number is present it represent the *threads per inch*

When bolt or capscrew is identified as **1/2 - 16 x 2"**, this means the *Nominal size*, or *body diameter* is 1/2 inch; the second number represents the *threads per inch* (16 in this example, and the final number is the *body length* of the bolt or screw (in this example 2 inches long).

The guides and ruler furnished below are designed to help you select the appropriate hardware and tools.



Torque Specification Chart

FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)

Hardware Grade	SAE Grade 2		SAE Grade 5		SAE Grade 8	
Size Of Hardware	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	**in/lbs** **ft/lbs**	Nm.
8-32	*19*	2.1	*30*	3.4	*41*	4.6
8-36	*20*	2.3	*31*	3.5	*43*	4.9
10-24	*27*	3.1	*43*	4.9	*60*	6.8
10-32	*31*	3.5	*49*	5.5	*68*	7.7
1/4-20	*66*	7.6	**8**	10.9	**12**	16.3
1/4-28	*76*	8.6	**10**	13.6	**14**	19.0
5/16-18	**11**	15.0	**17**	23.1	**25**	34.0
5/16-24	**12**	16.3	**19**	25.8	**27**	34.0
3/8-16	**20**	27.2	**30**	40.8	**45**	61.2
3/8-24	**23**	31.3	**35**	47.6	**50**	68.0
7/16-14	**30**	40.8	**50**	68.0	**70**	95.2
7/16-20	**35**	47.6	**55**	74.8	**80**	108.8
1/2-13	**50**	68.0	**75**	102.0	**110**	149.6
1/2-20	**55**	74.8	**90**	122.4	**120**	163.2
9/16-12	**65**	88.4	**110**	149.6	**150**	204.0
9/16-18	**75**	102.0	**120**	163.2	**170**	231.2
5/8-11	**90**	122.4	**150**	204.0	**220**	299.2
5/8-18	**100**	136	**180**	244.8	**240**	326.4
3/4-10	**160**	217.6	**260**	353.6	**386**	525.0
3/4-16	**180**	244.8	**300**	408.0	**420**	571.2
7/8-9	**140**	190.4	**400**	544.0	**600**	816.0
7/8-14	**155**	210.8	**440**	598.4	**660**	897.6
1-8	**220**	299.2	**580**	788.8	**900**	1,244.0
1-12	**240**	326.4	**640**	870.4	**1,000**	1,360.0

NOTES

1. These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
2. Recommended seating torque values for locknuts:
   a. for prevailing torque locknuts - use 65% of grade 5 torques.
   b. for flange whizlock nuts and screws - use 135% of grade 5 torques.
3. Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Wrench & Fastener Size Guide

1/4" Bolt or Nut
Wrench—7/16"

5/16" Bolt or Nut
Wrench—1/2"

3/8" Bolt or Nut
Wrench—9/16"

7/16" Bolt or Nut
Wrench (Bolt)—5/8"
Wrench (Nut)—11/16"

1/2" Bolt or Nut
Wrench—3/4"

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